

**Towson
State
University
Graduate
Bulletin
1977**

The student is responsible for complying with the provisions and requirements as they are written in this publication; however, the provisions of this publication are not to be regarded as an irrevocable contract between the student and Towson State University. The University reserves the right to change any provision or requirement at any time within the student's term of residence, or to add or withdraw course offerings.

ACCREDITATION

Towson State University is accredited by the Middle States Association of Colleges and Secondary Schools, the Maryland State Board of Education and the National Council for the Accreditation of Teacher Education. The University is a member of the American Council on Education, the Council of Graduate Schools in the United States, and the Northeastern Association of Graduate Schools. It is approved by the American Association of University Women.

ACADEMIC CALENDAR 1977

1977 SPRING SEMESTER

Jan. 25	Tue.	Registration in University Union (In person).
26	Wed.	See Registration Time Schedule in Spring Evening Schedule.
Feb. 7	Mon.	Classes begin.
11	Fri.	Final date to apply for Advancement to Degree Candidacy Examinations. Final date to submit Diploma Card for June Graduation.
Apr. 16	Sat.	Comprehensive Examination. (Most Advancement to Degree Candidacy Examinations will be administered on this date.)
1	Fri.	Spring Vacation begins after last class.
12	Tues.	Classes Resume.
May 13	Fri.	Final date to apply for Advancement to Degree Candidacy Examinations. Final date to submit Diploma Card for August Graduation.
28	Mon.	Last day of classes.
Jun. 5	Sun.	Commencement.

1977 SUMMER SESSIONS

Jun. 7	Tue.	Registration in University Union (In person).
8	Wed.	See Registration Time in Summer Sessions Bulletin.
22	Wed.	Day and Evening classes begin.
Jul. 9	Sat.	Comprehensive Examination (Most Advancement to Degree Candidacy Examinations will be administered on this date.)

1977 FALL SEMESTER

Aug. 23	Tue.	Registration in University Union (In person).
24	Wed.	See Registration Time Schedule in Fall Evening Schedule.
Sept. 7	Wed.	Classes begin.
Sept. 30	Fri.	Final date to apply for Advancement to Degree Candidacy Examinations. Final date to submit Diploma Card for December Graduation.
Nov. 5	Sat.	Comprehensive Examination. (Most Advancement to Degree Candidacy Examinations will be administered on this date.)



JAMES L. FISHER
PRESIDENT

Towson State University Graduate Bulletin 1977

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GENERAL INFORMATION

HISTORY OF THE UNIVERSITY

Towson State University, the oldest and largest of Maryland's public colleges and universities, traces its history back to 1865 when the General Assembly of Maryland established a state-wide public school system. The first state teacher training institution was the Maryland State Normal School which in 1935 became the State Teachers College at Towson.

Formally opened in Baltimore on January 15, 1866, the Normal School was, for many years, the only institution devoted exclusively to the preparation of teachers for the public schools of Maryland.

The School occupied three different locations in the City of Baltimore before moving to its present suburban location in 1915.

In 1946 the arts and sciences program was introduced at Towson. Beginning as a two-year transfer program, it was extended to a four-year, degree-granting program in 1960.

In 1963 the College was authorized, by action of the Legislature, to expand its offerings in the arts and sciences while maintaining a strong program in teacher education and to change its name from State Teachers College at Towson to Towson State College. In 1976 legislative authorization enabled the institution to become Towson State University.

DEVELOPMENT OF GRADUATE STUDIES

Graduate Studies at Towson State University began in 1958 with the establishment of a Master of Education degree program in Elementary Education. This was initiated after two years of preliminary study and recommendations from teachers and school administrators.

Sixty-seven students were admitted to the degree program in the first session of 1958, and the number of students has increased to the more than 6700 enrolled in November 1976. Towson State University offers thirteen programs leading to the Master's degree. A number of other programs are in various stages of planning and approval. The programs presently offered and the dates of approval by the Board of Trustees are as follows:

Master of Arts

General Studies	1974
Geography	1970
Psychology	1974

Master of Education

Art Education	1965
Early Childhood Education	1968
Elementary Education	1958
Music Education	1969
Reading	1969
Secondary Education	1965

Master of Science

Biology	1970
Health Science	1976
Instructional Technology	1971
Speech Pathology and Audiology	1972

THE CAMPUS

The University is situated on a campus of over 324 acres located a mile and one-half beyond the northern border of the city of Baltimore.

Within an eight-mile radius of the campus are all the cultural advantages of the city of Baltimore — The Peabody Conservatory of Music and Library, the Enoch Pratt Free Library, the Walters Art Gallery, the Baltimore Museum of Art, and the many theatres and other cultural centers necessary for a well-rounded University experience.

Campus buildings and facilities give excellent support to the various University programs. The following are of particular interest to graduate students:

1. Stephens Hall, one of the original campus buildings, houses the departments of Mathematics and Business Administration. This building with its clock tower has become a landmark in the Baltimore area.
2. The Albert S. Cook Library has well-developed holdings in the arts and sciences and teacher education. Towson's long history of teacher education is reflected in the extensive collections of bound volumes, reference works and periodicals in this field, as well as substantial holdings in microfilm and microcard. The collections of curriculum materials, textbooks, trade books and audiovisual aids are particularly noteworthy.
3. Van Bokkelen Hall is a classroom building for the department of Communication Arts and Sciences. In addition, it contains recording and listening rooms for this department.
4. Lida Lee Tall Learning Resources Center greatly facilitates field studies of children from nursery school through grade six.
5. Glen Esk, formerly the president's home, is now occupied by Counseling and Psychological Services.
6. Smith Science Hall was first occupied in the Fall of 1965. Included in the building are biology, chemistry, physics and science education offices, classrooms, laboratories and special function rooms such as student and faculty work and preparation areas. The Watson-King Planetarium is on the top floor. A large addition to the building was completed in 1976.
7. Linthicum Hall, completed in 1967, is a major classroom building on campus. Many faculty offices are also located here.
8. Burdick Hall, the health and physical education building completed in 1968, houses three gymnasiums, an olympic size swimming pool, classrooms, and various training and dressing rooms.
9. The General Services Building, opened Spring 1970, contains offices and shops for the physical plant department, the University Police headquarters, and Central Stores and Receiving.
10. The University Union, a three-story building opened in the Fall of 1971, provides cultural and recreational activities for the entire campus. Located in this building are the post office, book store, box office, dining areas for private and banquet size groups, bowling alleys and a billiard room.
11. The Administration Building, a three-story structure at the corner of Osler and Towson Boulevard, opened in 1972. It contains the principal administration offices. The Graduate Division Offices are located on the main level, west end.
12. The Fine Arts Building opened in May, 1973, houses the Art, Music, and Theatre Arts Departments as well as public performance areas, art galleries, studios, laboratories, and offices.

13. The Psychology-Education Complex, constructed at a cost of approximately \$7.5 million, was completed in the early part of this year. It includes a five-story education building, housing offices, classrooms, and lab areas, a five-story psychology building, with scientific equipment, and a two-story lecture hall.
14. The Towson Center, the University's new physical education complex, was completed this year at a cost of approximately \$12 million. The 100 acre complex includes an arena, stadium, all-weather track, tennis courts, and separate fields for football, lacrosse, baseball, soccer, field hockey and softball.

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PRIVACY RIGHTS OF PARENTS AND STUDENTS

Towson State University is in compliance with Section 513 (Protection of the rights and privacy of parents and students) and Section 514 (Protection of pupil rights) of Title V — Education Administration of the Education Amendments of 1974.

NON-DISCRIMINATION IN EDUCATION AND EMPLOYMENT

Towson State University is in compliance with Titles VI and VII of the Civil Rights Act of 1964, the Equal Pay Act of 1963, Title IX of the Education Amendments of 1972, Titles VII and VIII of the Public Health Service Act, and Executive Order 11246/11375. In accordance with these laws, the University does not discriminate against any individual for reasons of race, color, religion, national origin, or sex in the admission of students, educational programs and activities, hiring of faculty and staff, or any terms and conditions of employment. The University is also in compliance with Federal regulations regarding prohibition of discrimination on the basis of age, conditions of handicap, and veteran status. Information on these laws and copies of the Affirmative Action Plan of Towson State University are available from the Affirmative Action Officer.

BOARD OF TRUSTEES

The University is governed by a nine-member Board of Trustees — eight members appointed by the Governor for nine-year terms — and the State Superintendent of Schools, a permanent member, ex officio.

Created by the General Assembly of 1963, the Board was a recommendation of the Commission for the Expansion of Public Higher Education in Maryland and replaced the State Board of Education as the University's controlling agency.

GRADUATE STUDIES COMMITTEE

The Graduate Studies Committee determines policy for all graduate programs. Graduate curriculum matters are also the responsibility of the Committee. The membership is comprised of the Dean of Graduate Studies, the Chief Academic Officer, and two graduate coordinators appointed by the

President, all of whom serve in ex officio, non-voting capacities and six members of the faculty appointed by the President of the College for overlapping terms of three years. The Chairman and Secretary of the Graduate Studies Committee are elected from the membership of the Committee. The Committee will also include two graduate student members appointed by the President of the University. Meetings are held monthly during the academic year and at other times when necessary.

GRADUATE STUDIES COORDINATORS

The Graduate Studies Coordinators is a group comprised of the coordinators of each graduate program and the Associate Director of Graduate Studies. This group administers all graduate work within the policies set by the Graduate Studies Committee.

ADVISEMENT

Graduate student advisement is the responsibility of the Dean and Associate Director of Graduate Studies, the Graduate Studies Coordinators and faculty members serving on the Graduate Staff. Students are encouraged to seek an appointment with one of the advisory staff. All conferences with advisers should be arranged by appointment and well in advance of Registration dates.

GRADUATE SCHOOL OFFICE HOURS

The Graduate School Office is open each weekday (except for scheduled holidays) from 8:30 a.m. to 5:00 p.m. The office is also open Monday through Thursday evenings until 7:00 p.m. During Registration, the Office is open in the evening according to the Registration schedule. Students may arrange for appointments with the Graduate School Staff at other hours. The Graduate School telephone number is 321-2500.

CORRESPONDENCE

All correspondence concerning graduate study should be addressed to:
Dean of Graduate Studies
Towson State University, Baltimore, Maryland 21204

LIBRARY PRIVILEGES

Graduate students are issued University identification cards for borrowing privileges. Books and materials from other libraries in the area may be requested on Inter-Library Loan by graduate students.

Mon.-Thurs.	8:00 a.m. to 10:00 p.m.
Fri.	8:00 a.m. to 5:00 p.m.
Sat.	12:00 Noon to 5:00 p.m.
Sun.	2:00 p.m. to 9:00 p.m.

The Faculty Reserve Room is open until midnight Sunday through Thursday.

SCHEDULING OF COURSES

All 500-level and 600-level courses are offered after 4:00 p.m. with the exception of courses in the General Psychology area. Certain General Psychology courses are offered during the morning hours and in the early afternoon.

In all programs there is limited opportunity to take elective credits at the 300-level and 400-level during the hours prior to 4:00 p.m.

REGISTRATION AND FEES

REGISTRATION

Information concerning registration may be obtained prior to each session in the Graduate Office. Students may avail themselves of the opportunity to register by mail according to Graduate Division and the Division of Continuing Studies procedures. Post baccalaureate students who have never applied for admission and are registering for the first time may take 300-level and 400-level courses for graduate credit by completing the "Application for Admission to Graduate Studies." Registration for 500-level and 600-level courses is contingent upon the granting of Graduate Student standing.

FEES

Tuition and other fees are subject to change without notice by action of the Board of Trustees.

Any post-baccalaureate student enrolled in courses for graduate credit will be assessed at the graduate rate. Courses taken by post-baccalaureate students for undergraduate credit will be assessed at the undergraduate rate for each semester hour.

A listing of the various fees follows:

Application Fee: a non-refundable fee assessed each student	\$10.00
Tuition: undergraduate, per semester hour	\$28.00
graduate, per semester hour	\$45.00
Registration Fee: a non-refundable fee assessed every student each term	\$10.00
General University Fee: a non-refundable fee assessed every on-campus student each term	\$ 9.50
Late Registration Fee: a non-refundable fee assessed every student registering after the dates set for regular registration	\$ 5.00
Change of Course Fee: a non-refundable fee assessed for the addition or subtraction of courses from either the original application or from the registration form	\$ 5.00
Transcript Fee: charged after the first copy	\$ 2.00
Car Registration Fee: an assessment for each student bringing a car on campus Fall and Spring Semesters	\$ 4.00
Summer Sessions	\$ 5.00
Final or Make-up Examination Fee: a charge made if an examination is administered at other than the designated time	\$ 5.00
Laboratory Fee: charged for certain courses see course description	
Private Music Lessons:	\$50.00 plus tuition
Graduation Fee: for Master's Degree, Plan A (with Thesis)	\$30.00
Plan B (without Thesis)	\$25.00

STUDENT PERSONNEL PROGRAM

Graduate students are welcome to use the facilities and services of the Student Personnel Program. Students are also invited to avail themselves of the many programs presented by the Public Programs Committee of the University.

UNIVERSITY UNION

The University Union is located near the Fine Arts Building and Burdick Hall. The University Union in cooperation with the academic departments provides a program of activities in which graduate students are encouraged to participate. These activities are publicized in the weekly calendar of activities, circulated to the departments and posted in the University Union.

The University Union is open Monday through Thursday evenings until 11 p.m., on Friday and Saturday until midnight and on Sunday evenings until 9 p.m. Included in the facility are eight bowling alleys, a T.V. lounge, a snack bar, a music listening room, 16 billiard tables, and showers and lockers for commuting students. The facility also includes the University Store, a large cafeteria, a mediation room, a central lounge, an art gallery and a special dining room. Facilities are available for all types of conferences and meetings. The Food Service area includes catering for any type of event from coffee and donuts to a gourmet dinner. Organizational offices and meeting spaces are included in the University Union. Graduate students are encouraged to use the facilities.

UNIVERSITY STORE

The University Store is located in the University Union. Classroom supplies, phonograph records, hard-back and paper-back books, gifts, magazines, as well as sundry personal items are stocked.

TICKET BOX OFFICE

The Ticket Box Office located in the University Union provides a discount ticket service for most of the local dinner theaters and movie theaters and other community activities. The office also handles all tickets necessary for our campus events. The manager's telephone number is 321-2244.

HEALTH CENTER

The Anita Dowell Health Center is located northeast of Linthicum Hall. It is open week days until 9 p.m. and thereafter for emergencies. First aid is administered and appropriate referrals are made. All accidents on campus should be reported to the Health Center immediately. A mental health service is available for students seeking psychiatric help.

FINANCIAL AID

The Graduate Division at Towson State University offers a limited number of Graduate Assistantships each year to qualified students recommended by the appropriate department. The stipend for the Graduate Assistantship is \$2,500.00 plus remission of tuition fees. The student is required to provide appropriate work for the academic department each week during the semesters in which the Assistantship is in effect. Application forms for the Assistantship may be obtained in the Graduate Office. Detailed information may be obtained by writing to the Dean of Graduate Studies.

Financial aid is also available to post-baccalaureate students from State and Federal Programs. Information on the following programs may be obtained from the Financial Aid Office.

FEDERAL AID PROGRAMS

The **National Direct Student Loan Program** (Formerly National Defense Student Loan) NDSL makes up to \$5,000 in four years available on a loan basis to undergraduate students and \$10,000 aggregate for graduate students who have proven financial need. There is no interest charge on this loan as long as the student continues in at least half-time status, but there is interest of 3% beginning nine months after the student leaves school. The recipient may have up to ten years to repay the loan following his or her departure from school. Special education teachers and teachers teaching in economically and culturally deprived areas may receive up to 100% cancellation. NDSL repayment amounts vary according to the total amount of loan indebtedness; minimum payment of \$30.00 a month. Recipients of National Direct Student Loan funds through the university are required to have an exit interview. During this brief meeting between a financial aid counselor and the borrower, provisions of repayment and student privileges will be detailed.

The **College Work-Study Program (CWS)** makes jobs available to students with exceptional financial need. These jobs are usually assigned as part of the "Financial Aid Package." If at all possible, students are placed in positions that are related to their academic major or special interest. A student employed up to 20 hours per week for both semesters may expect to earn \$600-\$800 for the academic year. Wages range from \$2.30 (minimum) to \$3.50 per hour and student employees are paid every two weeks. Recipients are limited by their financial need in the amount they may earn.

To apply for the above Federal aid programs, students must complete and mail the **Financial Aid Form (FAF)** to the College Scholarship Service with instructions that the information be sent to the Towson State University. The FAF application fee is \$4.00 (subject to change) and may be obtained from the Towson State University Financial Aid Office. In addition, a **TSU Financial Aid application (Form A)** must be obtained and filed directly with the TSU Financial Aid Office. All forms and CSS information must be received in Towson's Financial Aid Office no later than April 1, 1977 for first consideration. (Please allow 4-5 weeks for processing of the FAF application by the College Scholarship Service in meeting the April 1 deadline.) Applications received after April 1 are considered on a remaining funds basis only.

STATE LOAN PROGRAMS

The **Guaranteed Loan Program** as operated in most states provides up to \$2,000 per year for graduate students. The Federal Government pays the 7% interest for students from families with adjusted incomes under \$25,000 while they are in college. Families with adjusted incomes over \$25,000 may qualify for the interest waiver if need is demonstrated through the Financial Aid office. Loans may also be secured without the Federal interest benefit. Repayment of the loan begins nine months after the student's departure from the University. Applications to Maryland residents may be received from and must be processed by the Financial Aid Office before final arrangements for the loans are made with the bank or lending institution. Out-of-state students may obtain applications from their local banks or lending institution.

RESIDENCE ON AND OFF CAMPUS

There is no provision to house graduate students on campus. The Director of Residence provides listings of off-campus accommodations. Arrangements for conferences should be made in advance by telephone.

GENERAL COUNSELING

Services of trained counselors in the Counseling Center are available to students who feel themselves to be in need of assistance in making personal, educational or career decisions. In a confidential and accepting climate, the student is afforded the opportunity to gain deeper insight into his needs and goals.

In addition to individual counseling, the center offers a program of group counseling, limited testing facilities, and extensive vocational and educational information.

The center staff participates in student and faculty activities which are concerned with the mental health of the college community.

PARKING

The operation and possession of motor vehicles in the Towson community and the use of campus parking facilities are privileges extended to all University personnel (faculty, staff, and students). These privileges carry with them the obligation to observe all regulations.

The map on the cover of this bulletin designates the parking areas for faculty, staff, and students. Student parking permits are \$4.00/\$5.00 each (See Registration and Fees) and may be obtained when other registration fees are paid.

VETERANS' AFFAIRS

Towson State University's Office of Veterans' Affairs is concerned with all veterans and their dependents in attendance. Its major aim is to assist all veterans in making a smooth readjustment to civilian life, especially in the area of education.

The office provides professional assistance and counseling to veterans concerning personal, family, educational, military discharges, and career problems. In addition, the office certifies veterans' and dependents' attendance so that they may receive educational benefits from the Veterans Administration.

Academic Regulations Governing Graduate and Post-Baccalaureate Study

GENERAL ADMISSIONS POLICY

Admission to the Graduate Division at Towson State University is granted to all applicants whose academic and personal qualifications give promise of success in graduate study.

All students seeking admission to a graduate degree program or to take courses carrying graduate credit must file an "Application for Admission to Graduate Studies" prior to first enrollment and have official transcripts of all college work sent to the Graduate Division. Transcripts must be sent directly from the institutions attended to the Graduate Office at Towson State University. Programs have the option of requiring additional admissions devices (including letters of recommendation, the Graduate Record Examination, Aptitude and/or Advanced Tests and the Miller Analogies).

ADMISSION TO COURSES FOR GRADUATE CREDIT

An applicant for admission to courses for graduate credit (classification: Graduate Student) must meet admission requirements in one of two ways: 1) By holding a Master's or Doctor's degree from a regionally accredited college or university, 2) By holding a Bachelor's degree from a regionally accredited college or university with a grade average of 3.00 ("B") and satisfactory attainment on all additional admissions devices required by the program. At the option of the coordinator and the Department Graduate Committee the grade average requirement may be satisfied by a 3.00 cumulative average, by a 3.00 average in the most recent 60 credits on the academic record, or by a 3.00 average in the courses making up the undergraduate major and minor if the student plans to continue his studies in these same fields. The quality of graduate work taken beyond the Bachelor's degree, either as post-baccalaureate (non-graduate credit) courses or graduate credit courses, will be evaluated as part of the undergraduate record.

Students denied admission because of a low academic average (2.0-2.29) may register for courses as a non-degree student, and may take upper division courses in order to raise the cumulative average to a 2.3. At such time the student may again apply for admission. A student with a cumulative average between 2.0-2.29 may also become eligible for Conditional Admission by attaining a score of 1000 or higher on the Aptitude portion of the Graduate Record Examination.

All required application credentials (see General Admissions Policy) must be filed with the Dean of Graduate Studies no later than July 15 for the Fall Semester, November 15 for the Spring Semester, or March 15 for the Summer Session to be considered for admission. Those who are admitted as Graduate Students may register for courses numbered 100-699, but will receive graduate credit only in graduate level courses numbered 300-699 completed with grades of "C" or better. Some 300-level and 400-level courses do not carry graduate credit and are not listed in the Graduate Bulletin. In order to maintain the classification of Graduate Student, a good academic record must be achieved even if the student is not in a degree program.

CONDITIONAL ADMISSION

Conditional Admission may be granted to those students whose academic

achievement falls short of the standards required for Graduate Student standing, if one of the following requirements is met:

- 1) Academic average in collegiate work — at least 2.30 in one or more of the areas of the student's record listed above in "ADMISSION TO COURSES FOR GRADUATE CREDIT"
- 2) Academic average in collegiate work — at least 2.000 in one or more of the areas of the student's record listed above in "ADMISSION TO COURSES FOR GRADUATE CREDIT" — and a score of 1000 or higher on the Aptitude portion of the Graduate Record Examination.

The student granted Conditional Admission must complete two specified courses, for graduate credit, with the grade of "B" or better in each course. The courses must be completed within one year of admission and may be used toward the degree when applicable. In programs where conditional admission courses are to be selected from assigned alternatives the first two courses attempted will constitute the Conditional Admission program.

Students admitted conditionally are enrolled as Non-Graduate Students.

GRADUATE WORK BY SENIORS AT TOWSON STATE UNIVERSITY

Seniors in their last semester of work at Towson State University may register for a maximum of six credit hours in the Graduate School if they meet the following requirements: 1) The graduate courses must be in excess of the credits required for the Bachelor's degree, 2) A letter sent from the student to the Dean of Graduate Studies requesting Graduate Student classification (which requires a 3.00 average), submitted in advance for specific graduate courses (by July 15 for the Fall Semester, November 15 for the Spring Semester, and March 15 for the Summer Session) must be approved. 3) All required application credentials must be submitted (see General Admissions Policy) and the student must be granted Graduate Student Standing prior to receipt of graduate credit for satisfactory completion of the courses, and prior to initiation of further course work.

NON-DEGREE STUDENTS

Students who do not meet the standards required for classification as Graduate Student are permitted to register with the classification of Non-Graduate Student. Those students receiving Non-Graduate standing are eligible to take courses at the 100-level through the 400-level, but may receive graduate credit only in courses numbered 300-499 and listed in the current bulletin as "Undergraduate and Graduate".

Students who believe they can meet the admission requirements for Graduate Student standing but who fail to file the required application credentials in advance must register as Non-Graduate for the semester. However, they will be considered for admission to Graduate Student standing if their application credentials are received by the Graduate Division before the end of the first quarter of the semester. If they are admitted to Graduate Student standing they will then be permitted to receive degree credit for satisfactory completion of any 300-level and 400-level graduate courses provided the courses are applicable to the degree program.

CANDIDATES FOR DEGREES AT OTHER INSTITUTIONS

Students who are candidates for an advanced degree at another college or university may enroll as a Graduate Student at this university for occasional work. They must present, at least two weeks before registration, a letter from the

Graduate Dean of their parent institution indicating that they are in good standing and that credit earned at Towson State University is acceptable toward their degree.

ADMISSION PRIOR TO RECEIVING BACCALAUREATE DEGREE

Admission may be granted to seniors in their last semester of work whose required application credentials are incomplete because the baccalaureate degree has not yet been conferred. Evaluation will be made on the basis of their undergraduate work through the first semester of the senior year. Standing granted in the pre-degree category is made at the option of the Graduate Program Coordinator to enable the student to begin work in courses carrying graduate credit immediately upon completion of the senior year. The applicant must have all application credentials completed during the first month after classes begin in the semester he initiates his course work. Admission standing is subject to cancellation or change if the admission credentials remain incomplete or do not meet the requirements for admission. If admission as a Graduate Student is denied, the student will be required to withdraw from any 500-level or 600-level courses for which he has registered. Continuation of students in courses below the 500-level will be permitted.

FOREIGN APPLICANTS

Admission should be sought at least six months prior to the date of anticipated enrollment. All required admission credentials must be received in the Graduate Office prior to evaluation for admission.

Credentials required are:

1. An Application for Admission to Graduate Studies.
2. Official or certified true copies of all grade reports, diplomas, and academic records attesting to the completion of undergraduate work.
3. A letter from the student stating plans for attending, and reasons for selecting, Towson State University.
4. A financial summary stating amount and sources of support for the proposed duration of study.
5. Acceptable scores on the Test of English as a Foreign Language (TOEFL). Information about the TOEFL may be obtained from TOEFL, Educational Testing Service, Princeton, New Jersey 08540.

GRADING SYSTEM

A four-point system is used to identify quality of academic work. The letter "A" designates work of superior quality; "B" work of good quality; "C" work of satisfactory quality; "D" work of less than satisfactory quality and not allowable for degree credit; "F" work of such unsatisfactory quality that no credit is given.

A mark of "I" (incomplete because of illness or other reason beyond control of student) at the end of semester, carries no credit. Unless such a course is satisfactorily completed within six months of the last day of class for the course, the grade for the course becomes "F". It is the responsibility of the student to make arrangements to complete course requirements for removal of the "I".

In computation of grade point averages, the following quality point values are used:

A-4 quality points	C-2 quality points
B-3 quality points	D-1 quality point
	F, FX-0 quality points

Students may repeat any course only once where credit has been earned or a mark of "F", "FX" or "W" has been awarded. When the course is repeated, the student will receive the credits for the course counted once and the higher of the two grades. Upon completion of the repeated course, a Change of Grade form must be submitted to the Registrar by the student. The lower of the marks earned is not retained on the student's permanent record.

REQUIREMENTS FOR THE MASTER'S DEGREE

1. Satisfactory completion of all undergraduate requirements listed as pre-requisites for the degree.
2. Filing of a Program of Study with the Dean of Graduate Studies.
3. Advancement to Degree Candidacy.
4. A 3.00 average in all graduate work at Towson State University.
5. Satisfactory completion of the Comprehensive Examination if required by the program in which the degree is sought.
6. Satisfactory completion of the Thesis and oral examination if the Thesis Option is selected.
7. Filing of the Diploma Card in the Graduate Division.

TIME LIMITATION

All requirements for the Master's degree are to be completed within a seven-year period. The scheduled time is determined from the date of the first course in the degree program at Towson State University, or the date of any course allowed as transfer credits, whichever is earlier.

CONTINUOUS ENROLLMENT

Each student is expected to register for courses on a regular basis. Should there be a lapse of two academic years without courses being taken, the student's records will be inactivated. Once a student has become "Inactive", it is necessary to be reactivated under current policies.

PROGRAM OF STUDY

A Program of Study should be planned within the semester that the student is granted Graduate Student standing. The Program is to be completed in consultation with an adviser, and must be drawn up on forms provided by the appropriate graduate coordinator. Revision of the Program of Study may be accomplished only with the adviser's approval. The Program must be planned prior to Advancement to Degree Candidacy.

Courses taken prior to the planning of the Program of Study are subject to the approval of the appropriate graduate coordinator. Courses taken as an undergraduate student and courses taken as a post-baccalaureate student for undergraduate credit may not be repeated for graduate degree credit.

ADVANCEMENT TO DEGREE CANDIDACY

All students in programs leading to the Master's degree must attain Advancement to Degree Candidacy. An application for Advancement to Degree Candidacy may be made by Graduate Students after nine hours of graduate courses have been completed. The following requirements govern eligibility for Advancement to Degree Candidacy:

1. Six credits in 500-level and 600-level courses.
2. A 3.00 average in all graduate work at this college.

3. Successful completion of the Advancement to Degree Candidacy Examination.
4. The filing of a Program of Study with the Dean of Graduate Studies.
5. Completion of all undergraduate requirements.

All students are urged to meet the requirements of and to make application for Advancement to Degree Candidacy within the nine to fifteen hour framework. Advancement to Degree Candidacy must be attained at least one semester prior to the semester in which the student desires graduation.

ADVANCEMENT TO DEGREE CANDIDACY EXAMINATION

Each student must successfully pass a written examination prior to Advancement to Degree Candidacy. In certain programs the examination may also include an oral portion to be administered subsequent to passing the written part. Application for the examination must be made prior to the date established as the deadline for applying as stated in the calendar at the front of this bulletin. Should the student not take the examination or have to repeat it, the application must again be submitted during the semester in which the examination is desired.

In the program leading to the Master's degree in Instructional Technology, the examination requirement may be satisfied by completing 0601.585, "Seminar in Instructional Technology" with the grade of "B" or higher. In the program leading to the Master's degree in Biology, the examination requirement may be satisfied by completing 0401.581, "Recent Advances in Biology," with the grade of "B" or higher. The programs in Early Childhood Education, Elementary Education, and Secondary Education allow satisfaction of the examination requirement by completing 0801.501, "Educational Ideas in Historical Perspective" with the grade of "B" or higher. The written Advancement to Degree Candidacy Examination is required in all cases where the grade of "A" or "B" is not attained when the course is first taken. In the program leading to the Master's degree in General Studies, the examination requirement may be satisfied by completing 4901.501, "The Introductory Seminar in General Studies," with the grade of "B" or higher. The student who receives less than "B" grade is required to remedy major deficiencies revealed by the course. Remediation may be in the form of additional course work, including Independent Study. When the student satisfactorily fulfills the requirements of the remediation plan, the requirements for Advancement are considered completed.

COMPREHENSIVE EXAMINATION

It is the option of each program to require a final comprehensive examination. The final comprehensive examination may not be taken earlier than the term during which the student will complete his course work. The examination may be repeated only once. Application for the examination must be made prior to the date established as the deadline for applying as stated in the calendar at the front of this bulletin. Should the student not take the examination or have to repeat it, an application must again be submitted during the semester in which the examination is desired.

ACADEMIC PROBATION

In order to remain in good standing, candidates for the Master's degree must maintain a 3.00 average. If the cumulative average falls below 3.00, the student will be placed on probation. If after completing nine more hours of work, his

cumulative average remains below 3.00, he will be dropped from candidacy; otherwise, he will be restored to good standing. A student on probation will not be permitted to take the written Advancement to Degree Candidacy Examination or the Comprehensive Examination leading to any degree. Required courses in which the candidate earns a grade of "D" must be repeated since the grade does not confer graduate credit.

WORKSHOP AND INDEPENDENT STUDY LIMITATIONS

In all degree programs, a limit of twelve semester hours total is placed on workshops, independent study, travel and study, directed reading, or other special format courses. No more than six semester hours may be taken in any one format.

COURSE LOAD

A student who registers for nine graduate credit hours is considered full time. One who takes fewer hours is designated a part-time student. The maximum load for full-time students is twelve credit hours.

THESIS PROCEDURE

Students intending to write a Thesis in partial fulfillment of the requirements for the degree should obtain the brochure "Thesis Procedure" from the Graduate Office. The following requirements must be met prior to approval of registration for the appropriate Thesis course:

1. The student declares in writing to the Dean of Graduate Studies his intent to complete the Thesis requirement.
2. The student meets with the Graduate Coordinator to select a Research Adviser.
3. A Thesis topic is agreed upon.
4. The student discusses suggested members of the Thesis Committee with the Graduate Coordinator and the Research Adviser.
5. When the Committee is agreed upon, the student obtains all appropriate signatures on the Thesis Committee Appointment and Approval Form.
6. The student prepares a Thesis Outline and submits copies to all members of the Thesis Committee.
7. The student and his adviser schedule a meeting of the full Committee and the student orally presents and defends his Outline.
8. The accepted Outline is filed with the office of the Dean of Graduate Studies.
9. The student begins his research.
10. At the next registration for courses, the student must register for the appropriate Thesis course.

TRANSFER CREDIT

The following regulations govern the transfer of credits from other regionally accredited colleges:

1. A maximum of twelve transfer credits may be allowed for graduate work satisfactorily completed at the following institutions: Bowie State College, Coppin State College, Frostburg State College, Salisbury State College, Morgan State University, and the University of Baltimore.

2. A maximum of six transfer credits may be allowed for graduate work satisfactorily completed at accredited institutions other than those listed in 1 above.
3. A maximum of twelve credits may be allowed for work successfully completed in the formal educational experiences sponsored by State and local Boards of Education. See "CREDIT FOR IN-SERVICE EXPERIENCES."
4. The total accumulation of transfer credits listed in 1, 2, and 3 above may not exceed twelve.
5. Application for transfer of courses taken prior to admission may be made after the student attains "Graduate Student" standing.
6. Transfer credit after a student has been admitted to the Graduate School at Towson State University may be permitted if the student applies in writing to the Dean of Graduate Studies for permission prior to taking a course. Approval may be granted if the course is approved for the student's program and if the course is not offered by Towson State University during the period of the student's attendance.
7. Required courses in a program must be completed at Towson State University.
8. All transfer credits must be completed with a grade of "B" or higher and must remain within the total span of seven years allowed for completion of the degree requirements.
9. Transfer credits will not be used in computing the academic average. The courses will appear on the Towson State University transcript with the title and credits earned, and without grades earned.
10. Transfer credits, regardless of level, may not be used to meet the 500- 600-level requirements of the graduate program.

CREDIT FOR IN-SERVICE EXPERIENCES

A student applying for a graduate degree program in Early Childhood Education, Elementary Education, Secondary Education, or Reading may request degree credit for formal educational experiences taken beyond the baccalaureate degree if such experiences were sponsored by State and local Boards of Education in Maryland. Application for evaluation of experiences must be made by the student to the Dean of Graduate Studies. The application must be accompanied by a portfolio of documentary evidence that attests to the quality of the experience for which credit is sought. Procedures pertaining to the evaluative process, as well as guidelines to assist the student in the preparation of the course portfolio may be secured from the Office of the Dean of Graduate Studies. A non-refundable \$10 fee will be assessed the student for the evaluation of each course. An additional fee will be charged for each credit accepted.

APPLICATION FOR GRADUATION

Each student must make application for graduation by submitting the Graduate Division Diploma Card and paying the appropriate graduation fee. The diploma card must be submitted by the published deadline date in the Academic Calendar on page 1 of this bulletin. Students submitting the Diploma Card late must delay graduation for one semester.

Should the student not graduate at the indicated time, the Diploma Card must again be submitted during the semester in which graduation is desired. The graduation fee will be required with the first submission of the Diploma Card, but not with subsequent submissions.



GRADUATE PROGRAMS

PROGRAMS AND PURPOSES

The Master of Arts degree in Psychology and Geography, and the Master of Science degrees in Health Science, Instructional Technology, Biology, and Speech Pathology and Audiology are intended to develop further specific knowledge in the respective fields. It is the intent of these programs to enable students to meet their needs through the flexibility within each program. The Master of Arts degree in General Studies is intended for the student wishing an interdisciplinary degree and is designed to meet individual needs.

The programs leading to the Master of Education degree have been developed primarily to help teachers increase their competency in the following general areas:

- Art Education
- Early Childhood Education
- Elementary Education
- Music Education
- Reading
- Secondary Education

THE M.A. IN GENERAL STUDIES

The Master of Arts degree in General Studies is an interdisciplinary degree designed to meet the individual student's needs. The degree program will provide the student seeking an advanced degree with the opportunity to extend knowledge and to develop competencies in areas of specific interest. The intent of the program is to insure breadth; however, the student wishing a disciplinary orientation can develop a program of study with a maximum of eighteen hours in the desired discipline. The program is offered by Towson State University in cooperation with Morgan State University.

Requirements:

1. Undergraduate Requirements
Bachelor's degree from an accredited college or university.
2. Course Requirements for the Degree. (minimum 36 hours)
 - a. Required Courses
 - 1) Gest 4901.501 Introductory Seminar in General Studies (3 hrs.) This course must be taken within the first nine hours of degree work.
 - 2) Gest 4901.502 Culminating Seminar in General Studies (3 hrs.) This course must be taken during the last semester of the degree program.
 - b. Planned Elective Courses (30 hrs.)
 - 1) The elective credits must be approved for the student's Program of Study in advance of enrollment for the courses.
 - 2) At least fifteen of the elective credits must be taken at the 500- and/or 600-levels.
 - 3) Twelve hours must be taken in the Graduate School at Morgan State University.
 - 4) No more than eighteen of the elective credits may be in any single discipline.

THE M.A. IN GEOGRAPHY

The Master of Arts degree program in Geography consists of optional plans that are designed to help the student prepare for a professional career which

requires completion of the master's degree, either for teaching at elementary, secondary, or community college levels or for continuing graduate work toward the doctorate. The program is organized to provide qualified students with a broad mastery of the field through a balanced curriculum of systematic and regional studies and research experience. Emphasis is placed on individual study, research, and the applications of approaches and techniques used in geography in the analysis of problems concerned with physical and cultural phenomena.

Students who complete the Master of Arts degree in Geography should develop a better understanding of the nature of geography and its interdisciplinary relationships. They should measurably improve their backgrounds for teaching or for entering a number of career areas, including various federal, state, and county agencies, and private industry.

Requirements:

1. Undergraduate Requirements

- a. At least an undergraduate minor in Geography or the equivalent.
- b. At least a "B" grade average in the geography courses presented for admission
- c. Acceptable achievement on the Graduate Record Examination in Geography may be required for admission.

2. Requirements for the Degree

Fulfillment of all requirements will be at the discretion of the department. A program of study will be prepared by each student in consultation with his adviser. The program of study will be presented to the Graduate Committee of the Department of Geography and Environmental Planning for approval. All students must present evidence of at least a fourth semester of college level competency in one modern language or Geog. 2206.375, Quantitative Methods in Geography (or an approved equivalent), plus at least one other approved course in statistics or computer techniques. Students may elect one of the following two plans of study:

a. Plan A. Master of Arts with Thesis

- 1) Completion of a total of at least 30 semester hours of prescribed and elective course work in geography, 6 of which will be met by a thesis.
- 2) At least 15 semester hours in geography must be earned at the 500-600-levels.
- 3) A thesis in geography which demonstrates the student's ability to do independent research.
- 4) Course Requirements for the Degree
 - (1) Geog. 2206.481 (3 hrs.)
 - (2) Geog. 2206.521 (3 hrs.)
 - (3) Geog. 2206.699 (Thesis) (6 hrs.)
 - (4) Electives (planned with Adviser) (18 hrs.)

b. Plan B. Master of Arts without Thesis

- 1) Completion of at least 36 semester hours of prescribed and elective course work in geography.
- 2) At least 18 semester hours in geography must be earned at the 500-600-levels.
- 3) Course Requirements
 - (1) Geog. 2206.481 (3 hrs.)
 - (2) Geog. 2206.521 (3 hrs.)
 - (3) Electives (planned with Adviser) (30 hrs.)

3. Advancement to Degree Candidacy Examination.

An examination is required for Advancement to Degree Candidacy. The

examination may be taken after completion of 9 semester hours (6 hours of which must be at the 500- and 600-levels) and may not be taken later than the semester following the one in which 15 hours are completed. Part of the examination may be conducted orally.

4. Comprehensive Examination

The department maintains the right to require a Comprehensive Examination at the conclusion of all other degree requirements.

THE M.A. IN PSYCHOLOGY

The Master of Arts degree program in Psychology offers the student an opportunity of in-depth specialization in four specific psychological areas. These areas are Clinical Psychology, Counseling, General Psychology and School Psychology. Each of these is described in detail with reference to objectives and requirements.

CLINICAL PSYCHOLOGY

The area of Clinical Psychology aims primarily at training a core of M.A. level psychologists for employment in state and other non-profit organizations. These psychologists will be able to provide services to patients and clients under the direct and continuing supervision of psychologists certified by the State Board of Examiners of Psychologists and/or medical staff. The program also seeks to prepare students for further graduate study in psychology.

Requirements:

1. Undergraduate Requirements in Psychology (total: 24 hours)

a. Courses in the following areas:

- 1) General Psychology (3 hrs.)
- 2) Child Psychology (3 hrs.)
- 3) Adolescent Psychology (3 hrs.)
- 4) Abnormal Psychology (3 hrs.)
- 5) Personality (3 hrs.)
- 6) Behavioral Statistics (3 hrs.)
- 7) Tests and Measurements (3 hrs.)
- 8) Experimental Psychology OR Learning (3 hrs.)

NOTE: These courses cannot be used to meet part of the formal elective requirements for the degree as defined in Paragraph 2 below. These courses must be completed prior to initiation of course work for the degree.

- b. Acceptable achievement on the Miller Analogies
- c. Acceptable performance on the Aptitude Test of the Graduate Record Examination
- d. A satisfactory interview with the Coordinator of the School/Clinical Psychology Areas
- e. A cumulative average of 3.0 in psychology
- f. Three letters of recommendation

2. Course Requirements for the Degree. They may be met by completing either one of the following plans of study:

a. Plan A: Master of Arts Without Thesis (Minimum of 39 hours)

1) Required Courses

- *a) Psyc 2001.531 Advanced Abnormal Psychology (3 hrs.)
- *b) Psyc 2001.520 Individual Intelligence Testing (3 hrs.)
- *c) Psyc 2001.591 Projective Techniques I (3 hrs.)
- d) Psyc 2001.592 Projective Techniques II (3 hrs.)

- e) Psyc 2001.565 Psychotherapy and Behavior Change I (3 hrs.)
- f) Psyc 2001.566 Psychotherapy and Behavior Change II (3 hrs.)
- g) Psyc 2001.553 Issues and Research in School/Clinical Psychology (3 hrs.)
- h) Psyc 2001.551 Techniques of Group Intervention (3 hrs.)
- i) Psyc 2001.690 Seminar in School/Clinical Psychology (3 hrs.)
- j) Psyc 2001.651 Practicum in School/Clinical Psychology (3 hrs.)
- k) Psyc 2001.652 Internship in School/Clinical Psychology (3 hrs.)
- 2) Electives. Six hours of courses are elected by the student from within or outside the field of psychology to complement his program of study. Such courses must have prior written consent of the area Coordinator:
- b. Plan B: Master of Arts with Thesis (Minimum of 39 hours.)
 - 1) Required courses are identical to Plan A
 - 2) One elective is dropped to permit registration for the Thesis course, Psyc 2001.699 (3 hrs.)
- c. A final Comprehensive Examination is required

*Courses to be completed or in progress prior to Advancement to Candidacy Examination.

**Please note: The Internship carries with it a residency requirement of one semester. The student must be available for placement in a school or clinic.

COUNSELING

The purpose of the area of Counseling is to develop professionally responsible individuals who are capable of facilitating a counselee's personal growth and development. He is trained to help his client to explore his educational, vocational and personal goals and seeks to facilitate the counselee's development of a meaningful course of action in these areas. The training program requires an understanding of psychological principles and reflects professional practices and responsibilities consistent with current research findings. The student has the opportunity to select a concentration in Counseling from:

- a. Elementary School Counseling
- b. Secondary School Counseling
- c. Career Counseling
- d. Community Counseling
- e. Rehabilitation Counseling

Requirements:

1. Undergraduate Requirements
 - a. Courses in the following areas.
 - 1) General Psychology (3 hrs.)
 - 2) Behavioral Statistics (3 hrs.)
 - 3) Introduction to Tests and Measurements (3 hrs.)
 - b. Acceptable achievement on the Miller Analogies.
2. Additional Undergraduate Requirements in Psychology (3 hrs.)
 - a. For students applying for Elementary School Counseling Concentration: Child Psychology (3 hrs.)
 - b. For students applying for Secondary School Counseling Concentration: Adolescent Psychology (3 hrs.)
 - c. For students applying for Career Counseling Concentration: Child or Adolescent Psychology (3 hrs.)
 - d. For students applying for Community Counseling Concentration and Rehabilitation Counseling Concentration: Abnormal Psychology (3 hrs.)

3. Course Requirements for the Degree (Minimum 39 hours)
 - a. Required courses for all candidates (12 hrs.)
 - 1) Psyc 2001.515 Introduction to Research Methods in Counseling (3 hrs.)
 - 2) Psyc 2001.425 Introduction to the Helping Relationship (3 hrs.)
 - 3) Psyc 2001.430 Systems and Techniques of Counseling Practice (3 hrs.)
 - 4) Psyc 2001.621 Group Techniques in Counseling (3 hrs.)
 - b. For students whose goals are related to Elementary School Counseling the following courses are required:
 - 1) Psyc 2001.511 Developmental Psychology (3 hrs.)
 - 2) Psyc 2001.605 Principles of Guidance (3 hrs.)
 - 3) Psyc 2001.611 Analysis of the Individual (3 hrs.)
 - 4) Psyc 2001.606 Introduction to Career Development (3 hrs.)
 - 5) Psyc 2001.630 Counseling the Elementary School Child (3 hrs.)
 - 6) Psyc 2001.645 Counseling Practicum I (3 hrs.)
 - 7) Psyc 2001.646 Counseling Practicum II (3 hrs.)
 - 8) Electives (6 hrs.)
 - c. For students whose goals are related to Secondary School Counseling, the following courses are required:
 - 1) Psyc 2001.361 Abnormal Psychology (3 hrs.)
 - 2) Psyc 2001.511 Developmental Psychology (3 hrs.)
 - 3) Psyc 2001.605 Principles of Guidance (3 hrs.)
 - 4) Psyc 2001.611 Analysis of the Individual (3 hrs.)
 - 5) Psyc 2001.606 Introduction to Career Development (3 hrs.)
 - 6) Psyc 2001.627 Use of Tests in Counseling (3 hrs.)
 - 7) Psyc 2001.645 Counseling Practicum I (3 hrs.)
 - 8) Psyc 2001.646 Counseling Practicum II (3 hrs.)
 - 9) Psyc 2001.--- Elective (3 hrs.)
 - d. For students whose goals are related to Career Counseling, the following courses are required:
 - 1) Psyc 2001.605 Principles of Guidance (3 hrs.)
 - 2) Psyc 2001.611 Analysis of the Individual (3 hrs.)
 - 3) Psyc 2001.606 Introduction to Career Development (3 hrs.)
 - 4) Psyc 2001.607 Occupational Information (3 hrs.)
 - 5) Psyc 2001.608 Media in Career Education (3 hrs.)
 - 6) Psyc 2001.627 Use of Tests in Counseling (3 hrs.)
 - 7) Psyc 2001.645 Counseling Practicum I (3 hrs.)
 - 8) Psyc 2001.646 Counseling Practicum II (3 hrs.)
 - 9) Psyc 2001.--- Elective (3 hrs.)
 - e. For students whose goals are related to Community Counseling, the following courses are required:
 - 1) Psyc 2001.511 Developmental Psychology (3 hrs.) or
2001.341 Adolescent Psychology (3 hrs.)
 - 2) Psyc 2001.627 Use of Tests in Counseling (3 hrs.)
 - 3) Psyc 2001.521 Advanced Abnormal Psychology (3 hrs.)
 - 4) Psyc 2001.645 Counseling Practicum I (3 hrs.)
 - 5) Psyc 2001.646 Counseling Practicum II (3 hrs.)
 - 6) Psyc 2001.--- Internship in Community Counseling (3 hrs.) or
2001.--- Community Mental Health Counseling
 - 7) Psyc 2001.--- Electives (6 hrs.)
 - 8) Psyc 2001.--- Elective or Thesis (3 hrs.)
 - f. For students whose goals are related to Rehabilitation Counseling, the following courses are required:
 - 1) Psyc 2001.561 Foundations of Rehabilitation Counseling (3 hrs.)

- 2) Psyc 2001.--- Psycho-Social Aspects of Disabilities (3 hrs.)
- 3) Psyc 2001.--- Medical Aspects of Disabilities (3 hrs.)
- 4) Psyc 2001.627 Use of Tests in Counseling (3 hrs.)
- 5) Psyc 2001.606 Introduction to Career Development (3 hrs.)
- 6) Psyc 2001.--- Clinical Practicum in Rehabilitation Counseling (3 hrs.)
- 7) Psyc 2001.--- Internship in Rehabilitation Counseling (3 hrs.)
- 8) Psyc 2001.--- Elective (3 hrs.)
- 9) Psyc 2001.--- Elective or Thesis (3 hrs.)
4. Electives selected by the student must have prior written consent of adviser and must be approved for the student's program of study.
5. Advancement to Degree Candidacy Examination.
The examination is generally taken in the semester during which fifteen hours of graduate work is completed; however, the student may elect to take the examination at any time during his program of study. The examination consists of two parts. The first part is written, and the second part is an oral examination. The written part must be taken and passed before the student can take the oral section. The examination includes the following course work:
 - a. Psyc 2001.425 Introduction to the Helping Relationship
 - b. Psyc 2001.430 Systems and Techniques of Counseling
 - c. Psyc 2001.411 Introduction to Tests and Measurements
 - d. One of the following, depending upon the student's area of concentration: 2001.321 Adolescent Psychology; 2001.361 Abnormal Psychology; 2001.211 Child Psychology.
6. A final Comprehensive Examination is required.

GENERAL PSYCHOLOGY

The purpose of the General Psychology area has as its premise a thorough training in the basic historical, methodological, theoretical, and conceptual bases of psychology. The student obtains a firm background in psychology by taking courses within the Core Program. In addition, a meaningful, individualized program of electives may be pursued by taking courses in a number of different areas including experimental, college teaching, clinical, and counseling.

Students who complete this program will be prepared to pursue more advanced degrees in psychology in any specialty area or compete adequately in the job market for such positions as psychometrician, laboratory technician, experimental designer or community college teacher.

Requirements

1. Undergraduate Requirements:
 - a. Courses in the following areas:
 - 1) Statistics (3 hrs.)
 - 2) Experimental Psychology (3 hrs.)
 - 3) Learning (3 hrs.)
 - b. Scores from the Graduate Record Examination (Aptitude and Advanced) must be submitted prior to Advancement to Degree Candidacy. No fixed score is required for admission however.
2. Course Requirements for the Degree (39 hrs.). They may be met by completing the following:
 - a. Core Program (22 hrs.)
 - 1) Psyc 2001.575 Proseminar I (3 hrs.)

- 2) Psyc 2001.576 Proseminar II (3 hrs.)
- 3) Psyc 2001.587 Advanced Experimental Design I (3 hrs.)
- 4) Psyc 2001.588 Advanced Experimental Design II or 2001.589 Multi-variate Methods (3 hrs.)
- 5) Psyc 2001.573 Advanced Experimental Psychology I or Psyc 2001.574 Advanced Experimental Psychology II (4 hrs.)
- 6) Psyc 2001.581 History & Systems (3 hrs.)
- 7) Psyc 2001.577 Learning (3 hrs.)
- b. Elective Courses (17 hrs.)
 - 1) Student may choose any graduate elective at the 300-600 levels.
 - 2) Student may elect to complete a thesis (3 hrs.). A more appropriate integrative experience may be substituted for the thesis dependent upon the students career goals.
3. Advancement to Degree Candidacy Examination
An examination is required for advancement to degree candidacy. The examination is taken toward the end of the semester in which 15 hours of graduate work is completed and includes any relevant course work taken up to that point.

SCHOOL PSYCHOLOGY

The area of School Psychology aims primarily at preparing qualified students for certification as school psychologists in the State of Maryland. Because of the broad application of these skills, the students are also typically prepared to serve as MA level psychologists in a variety of non-profit organizations. The program also seeks to prepare students for advanced graduate study in psychology.

Requirements:

1. Undergraduate Requirements in Psychology (total 24 hours)
 - a. Courses in the following areas:
 - 1) General Psychology (3 hrs.)
 - 2) Child Psychology (3 hrs.)
 - 3) Adolescent Psychology (3 hrs.)
 - 4) Abnormal Psychology (3 hrs.)
 - 5) Personality (3 hrs.)
 - 6) Behavioral Statistics (3 hrs.)
 - 7) Tests and Measurements (3 hrs.)
 - 8) Experimental Psychology OR Learning (3 hrs.)

NOTE: These courses cannot be used to meet part of the formal elective requirements for the degree as defined in Paragraph 2 below. These courses must be completed prior to initiation of course work for the degree.

- b. Acceptable achievement on the Miller Analogies
 - c. Acceptable performance on the Aptitude Test of the Graduate Record Examination
 - d. A satisfactory interview with the Coordinator of the School/Clinical Psychology areas.
 - e. A cumulative average of 3.0 in psychology
 - f. Three letters of recommendation
2. Course Requirements for the Degree. They may be met by completing either one of the following two plans of study:
 - a. Plan A: Master of Arts Without Thesis (Minimum of 39 hours)
 - 1) Required courses
 - *a) Psyc 2001.531 Advanced Abnormal Psychology (3 hrs.)
 - *b) Psyc 2001.520 Individual Intelligence Testing (3 hrs.)
 - *c) Psyc 2001.591 Projective Techniques I (3 hrs.)

- d) Psyc 2001.592 Projective Techniques II (3 hrs.)
- e) Psyc 2001.511 Developmental Psychology (3 hrs.)
- f) Psyc 2001.475 Identification and Treatment of Sensory Disabilities in the Schools (3 hrs.)
- g) Psyc 2001.553 Issues & Research in School/Clinical Psychology (3 hrs.)
- h) Psyc 2001.551 Techniques of Group Intervention (3 hrs.)
- i) Psyc 2001.690 Seminar in School/Clinical Psychology (3 hrs.)
- j) Psyc 2001.651 Practicum in School/Clinical Psychology (3 hrs.)
- k) Psyc 2001.652 Internship in School/Clinical Psychology (3 hrs.)
- 2) Electives. Six hours of courses are elected by the student from within or outside the field of psychology to complement his program of study. Such courses must have prior written consent of the area coordinator.
- b. Plan B: Master of Arts With Thesis (Minimum of 39 hours)
 - 1) Required courses are identical to Plan A
 - 2) One elective is dropped to permit registration for the Thesis course, Psyc 2001.699 (3-6 hrs.)
- c. A final comprehensive examination is required.

*courses to be completed or in progress prior to Advancement to Degree Candidacy Examination

**please note: The internship carries with it a residency requirement of one semester. The student must be available for placement in a school or clinic.

THE M.S. IN INSTRUCTIONAL TECHNOLOGY

This degree program is intended to meet the needs of those who wish to develop competencies and leadership in the use of media to improve instruction in various settings. Applicants have the option of two tracks. Track I (Communications Specialist) is designed for maximum curricular flexibility to build competencies in special interest areas for those in school classrooms, higher education, government, industry, armed forces, or medicine; State Department certification as a Media Specialist is possible. Track II meets state certification requirements for the Media Generalist classification and is for those in charge of school media centers.

TRACK I COMMUNICATIONS SPECIALIST

Requirements:

1. Undergraduate Requirements.
 - a. Completion of a baccalaureate degree from an accredited college or university.
 - b. Completion of the following course or its equivalent:
0601.301 Utilization of Instructional Media
2. Applicants will need to obtain satisfactory ratings in all admissions devices (including an impromptu essay) following departmental receipt of all admission credentials from the Graduate Office.
3. The Department will write the applicant about arranging to take the admission essay. The intent of this essay is to test the competency of the applicant in written communications skills.
4. Course Requirements for the degree.
 - a. Plan A. Master of Science with Thesis (minimum 30 hrs.)
 - 1) Required Courses (18 hrs.)
 - a) ISTC 0601.485 Media Design (3 hrs.)

- b) ISTC 0601.563 Applied Psychology of Learning (3 hrs.)
- c) ISTC 0601.585 Seminar in Instructional Technology (3 hrs.)
- d) ISTC 0601.695 Research in Instructional Technology (3 hrs.)
- e) ISTC 0601.699 Master's Thesis in Instructional Technology (6 hrs.)
- 2) Additional Required Courses (6 hrs.) From:
 - a) ISTC 0601.501 Organization and Administration of Media Center Programs (3 hrs.)
 - b) ISTC 0601.567 Instructional Development (3 hrs.)
 - c) ISTC 0601.573 Instructional Facilities Design (3 hrs.)
 - d) ISTC 0601.689 Internship in Instructional Technology (6 hrs.)
- 3) Elective Courses (6 hrs.)
Selection of elective courses must be made with the advice and approval of a program advisor.
- b. Plan B. Master of Science without Thesis (minimum 33 hrs.)
 - 1) Required courses except for Thesis are identical to Plan A.
 - 2) Elective Courses (12 hrs.)
Selection of elective courses must be made with the advice and approval of a program advisor.

TRACK II EDUCATIONAL MEDIA GENERALIST

Requirements:

1. Undergraduate Requirements.
 - a. Certification as a public school teacher, teacher-librarian or media associate
OR
Baccalaureate degree from accredited college or university and the following courses or their equivalents:
 - 1) 2001.201 Educational Psychology (3 hrs.)
 - 2) 0803.319 Survey of Educational Programs (3 hrs.)
 - 3) ONE of the following:
 - a) 0801.401 Foundations of Education (3 hrs.)
 - b) 0801.402 History of Education (3 hrs.)
 - c) 0801.405 Philosophy of Education (3 hrs.)
 - b. Completion of the following courses or their equivalents:
 - 1) 0601.301 Utilization of Educational Media (3 hrs.)
 - 2) 0601.471 Reference and Information Sources (3 hrs.)
 - 3) 0601.473 Cataloging and Classifying of Media (3 hrs.)
2. Applicants will need to obtain satisfactory ratings in all admissions devices (including an impromptu essay) following departmental receipt of all admission credentials from the Graduate Office.
3. The Department will write the applicant about arranging to take the admission essay. The intent of this essay is to test the competency of the applicant in written communications skills.
4. Course Requirements for the degree.
 - a. Plan A. Master of Science with Thesis (minimum 30 hrs.)
 - 1) Required Courses:
 - a) 0601.485 Media Design (3 hrs.)
 - b) 0601.501 Organization and Administration of Media Center Programs (3 hrs.)
 - c) 0601.515 Media Selection (3 hrs.)
 - d) 0601.563 Applied Psychology of Learning (3 hrs.)
 - e) 0601.567 Instructional Development (3 hrs.)

- f) 0601.585 Seminar in Instructional Technology (3 hrs.)
- g) 0601.695 Research in Instructional Technology (3 hrs.)
- h) 0601.689 Internship in Instructional Technology (required only if the student has not had a practicum or two years of successful teaching or media related experience) (6 hrs.)
- i) 0601.699 Master's Thesis in Instructional Technology (3-6 hrs.)
- 2) Elective Courses
Selection of elective courses must be made with the advice and approval of a program advisor. Sufficient courses must be taken to bring the program total to at least 30 semester hours (excluding undergraduate requirements).
- 3) In the degree program a total of 18 semester hours of courses must be at the 500- and 600-levels.
- b. Plan B. Master of Science without Thesis (minimum 33 hrs.)
 - 1) Required Courses
Required courses are identical to Plan A except for the deletion of: 0601.699 Master's Thesis in Instructional Technology (3-6 hrs.)
 - 2) Elective Courses

THE M.S. IN BIOLOGY

The Master of Science Degree Program in Biology is designed to provide greater knowledge and understanding of biology and to help the student develop a proficiency in independent thought, inquiry, and research. The degree program will provide the necessary background and experience for those desiring to teach in the increasing number of junior and community colleges, those whose employment requires an advanced degree in biology, and those who plan further study for the Ph.D. The program will enable secondary school teachers to extend their knowledge and increase their competence in cultivating the spirit of scientific inquiry through their own participation in research.

Requirements:

1. Supplemental application must be filed for admission to the Master of Science degree program in Biology.
2. An interview with members of the Biological Sciences faculty should be obtained.
3. Three letters of recommendation from persons familiar with the student's scientific work and aptitude must be sent to the Graduate Office. At least one of these letters should be from a former instructor in the student's undergraduate major. The student should check with the Graduate Office to ascertain that the letters have been received.
4. Undergraduate Requirements
 - a. A thorough preparation in general biology.
 - b. Courses in botany, zoology, and genetics as well as allied courses in general and organic chemistry, physics, and mathematics.
5. Requirements for the Degree
 - a. Scores on the Aptitude and Advanced Tests of the Graduate Record Examination are required prior to Advancement to Degree Candidacy.
 - b. Plan A. Master of Science with Thesis (Minimum 30 hours)
At least 18 hours must be at the 500-600 levels. A Thesis based on laboratory and/or field research is required. The student must successfully complete the Advancement to Degree Candidacy Examination. This requirement is fulfilled by completion of Biol. 14.581, Recent Advances in

Biology, with the grade of "A" or "B". The final examination is an oral defense of the Thesis.

- 1) Required Courses (11. hours)
 - a) Biol 0401.581 Recent Advances in Biology (4 hrs.)
 - b) Biol 0401.697 Graduate Seminar (1 hr.)
 - c) Biol 0401.699 Thesis (6 hrs.)
- 2) Elective Courses (19 hours)
 - a) These are to be selected from courses approved by the Student's Graduate Adviser
 - b) Upon approval of the Graduate Adviser, a maximum of 6 hours in allied courses from other departments may be applied toward degree requirements.
- c. Plan B. Master of Science without Thesis (Minimum 36 hours)

At least 18 hours must be at 500-600 levels. A research paper which represents the quality, but not the range, of a thesis is required. The paper is based on the research project conducted in Biol 14.601. The student must successfully complete the Advancement to Degree Candidacy Examination. This requirement is fulfilled by completion of Biol 14.581, Recent Advances in Biology, with the grade of "A" or "B".

 - 1) Required Courses (8 hrs.)
 - a) Biol 0401.581 Recent Advances in Biology (4 hrs.)
 - b) Biol 0401.601 Non-Thesis Graduate Research (3 hrs.)
 - c) Biol 0401.697 Graduate Seminar (1 hr.)
 - 2) Elective Courses (28 hrs.)
 - a) These are to be chosen from courses approved by the Graduate Adviser.
 - b) Upon approval of the Graduate Adviser, a maximum of 6 hours in allied courses from other departments may be applied toward degree requirements.
6. Area of Concentration

In either Plan A or Plan B a student may, with the approval of the Graduate Advisor and the Biology Graduate Committee, choose an area of concentration which will be recorded on the transcript.

THE M.S. IN HEALTH SCIENCE

Towson State University offers a dual track program leading to a Master of Science degree with specializations in either School Health or Community Health Education. The student may enter the program which best meets educational objectives and career goals. Upon completion of the degree program, the student will have acquired a knowledge and understanding of the facts, theories and principles basic to the science of School Health or Community Health as well as in the supporting biological, behavioral, sociological and educational areas. The Community Health Education program is designed to meet accreditation standards of the American Public Health Association.

The student entering the School Health Track can consider future employment possibilities in the following areas: Classroom Health Teacher, Supervisor or Coordinator of the Health Science Program within a school system, Health Educational Media Specialist, Program Evaluation Specialist within a school system, Continuing Education and School Personnel Development.

A graduate of the Community Health Education program may pursue a career as a health education specialist in an official health agency such as a state or local health department, federal agencies or voluntary health agencies.

Students holding current credentials in pharmacy, nursing, dentistry, dietetics and other professions may wish to combine their skills from prior training, and redirect their careers toward community education related to their specific prior training. With a Master of Science Degree in Community Health Education, students may also seek employment with various public health agencies, or expand their own practice with an education component. Because the program provides professional training in basic public health and administrative skills, many other opportunities may be available to the student.

Requirements

1. Undergraduate Requirements
 - a. An undergraduate degree in health education or health science
OR
 - b. A minimum of 24 credit hours of course work in health and related sciences. (Nine hours must be in Health Education plus 15 hours in psychology, sociology, anthropology, biology, or chemistry)
OR
 - c. 15 hours of course work in Health Sciences with related work OR field experiences as determined by the Graduate faculty of the Health Science Department.
2. Requirements for the Degree
 - a. General Requirements are for 24 credit hours of Health Education courses and a minimum of 9 credit hours in a support area such as psychology, sociology, biology, counseling, education, instructional technology or another approved area. Community Health Education students may select supervised field work rather than the support area.
 - b. Students may select thesis option (33 credit hours required) or the non-thesis option (36 credit hours required).

THE M.S. IN SPEECH PATHOLOGY AND AUDIOLOGY

The Master of Science degree in Speech Pathology and Audiology is designed to enable the pre-professional in the field, e.g., those with a Bachelor's degree in Speech Pathology and Audiology, to meet the academic and clinic practice requirements of the national and state speech and hearing associations. The Speech Pathology and Audiology program will provide the student with an in-depth investigation of specific disorders of speech, hearing, and language; intensive study of normal speech and language development; development of appropriate therapeutic goals, procedures, and materials; and extensive clinical practice experience in on-campus and off-campus settings with a wide variety of clinical cases.

Students may elect to emphasize either the **Speech Pathology Specialization** or the **Audiology Specialization**. Applicants should indicate their area of emphasis on the application form.

Completion of the degree will prepare the individual to meet academic and practicum requirements for certification and licensure; to compete for employment in public school, clinical, or hospital settings; or to pursue advanced degrees in this field.

Individuals without an undergraduate degree in Speech Pathology and Audiology must complete 33 hours of undergraduate coursework from designated prerequisite courses **prior** to applying for admissions into the Master of Science Degree Program.

Requirements:

1. Undergraduate Requirements

- a. Bachelor's degree in Speech Pathology and Audiology OR
- b. Successful completion of 33 hours of undergraduate coursework in Speech Pathology and Audiology including the following courses or their equivalents:
 - 1) 1220.105 Speech and Language Development (3 hrs.)
 - 2) 1220.341 Introduction to Audiology (3 hrs.)
 - 3) 1506.310 Phonetics of American English (3 hrs.)
 - 4) 1220.400 Anatomy and Physiology of the Auditory and Vocal Mechanisms (3 hrs.)
 - 5) 1506.402 Hearing and Speech Science (3 hrs.)
 - 6) 1220.302 Speech Pathology I (3 hrs.)
 - 7) 1220.304 Speech Pathology II (3 hrs.)
 - 8) 1220.306 Speech Pathology III (3 hrs.)
 - 9) 1220.305 Stuttering (3 hrs.)
 - 10) 1220.486 Clinic Observation and Techniques (3 hrs.)
 - 11) 1220.487 Clinic Practice I (3 hrs.)
2. Three letters of recommendation from undergraduate instructors are required.
3. Course Requirements for the Degree
 - a. Speech Pathology Specialization
 - 1) Required Courses (3 hrs.)
 - a) 1220.513 Introduction to Research in Speech Pathology and Audiology (1 hr.)
 - b) 1220.645 Advanced Clinic Practice (2 hrs.)
 - 2) Speech/Language Sequence (21 hours)
 - a) Speech and Speech Pathologies (9 hrs.)
The student must elect a minimum of 9 hours in courses which deal with the nature and development of speech processes and/or with the nature, development, etiology, and treatment of speech pathologies.
 - b) Language and Language Pathologies (9 hrs.)
The student must elect a minimum of 9 hours in courses which deal with the nature and development of language processes and/or language pathologies.
 - c) Remaining 3 hours may be taken in either area.
 - 3) Audiology Sequence (6 hours)
 - a) The student must elect one three hour course from those dealing with **aural habilitation/rehabilitation**.
 - b) The student must elect one three hour course from those dealing with **auditory disorders**.
 - 4) Non-major/minor sequence (6 hours)
The student must elect 6 hours of courses outside the areas of speech pathology and audiology. Specific courses and areas must be approved by the advisor, and may include such areas as speech/hearing sciences, experimental phonetics, psychology, education, linguistics, and physics among others.
 - b. Audiology Specialization (36 hours)
 - 1) Required Courses (3 hours)
 - a) 1220.513 Introduction to Research in Speech Pathology and Audiology (1 hr.)
 - b) 1220.645 Advanced Clinic Practice (2 hrs.)
 - 2) Audiology Sequence (21 hours)
 - a) Auditory Disorders (9 hrs.)
The student must elect a minimum of 9 hours in courses which deal with auditory disorders.

- b) Aural Habilitation/Rehabilitation (6 hrs.)
The student must elect a minimum of 6 hours from courses which deal with **aural habilitation/rehabilitation**.
- c) Conservation (3 hrs.)
The student must elect a minimum of 3 hours from courses which deal with hearing conservation.
- d) Instrumentation (3 hrs.)
The student must elect a minimum of 3 hours from courses which deal with instrumentation.
- 3) Speech/Language Sequence (6 hours)
 - a) The student must elect a minimum of 3 hours from courses which deal with the nature, development, etiology, diagnosis, and treatment of **language disorders**.
 - b) The student must elect a minimum of 3 hours from courses which deal with the nature, development, etiology, diagnosis, and treatment of speech disorders.
- 4) Non-major/minor Sequence (6 hours)
The student must elect 6 hours from courses outside the areas of speech pathology and audiology. Specific courses and areas must be approved by the advisor, and may include such areas as speech/hearing sciences, experimental phonetics, psychology, education, physics, and geography among others.
- 4. Advancement to Degree Candidacy Examination: Students will schedule an examination which will be written and will be taken after successful completion of 9-15 hours of graduate study. The examination will consist of three essay questions in the student's major area of emphasis and one essay question in the student's minor area of emphasis within the department.

THE M. ED. IN ART EDUCATION

The Master of Education degree program in Art Education is structured to further an understanding of the creative process, with its educational implications, and to develop increased sensitivity to, and skill in the graphic and plastic arts. Students are encouraged to specialize in an area of expression so that they may develop greater understanding and professional competence.

Requirements:

- 1. Undergraduate Requirements in Education and Art
 - a. Certification as a public school art teacher
OR
 - b. Courses in both Art and Education areas as follows (total: 32 hours):
 - 1) In Art (27 hours)
 - a) Fundamentals of Design (two and three dimensional) (6 hrs.)
 - b) Ceramics and Sculpture (6 hrs.)
 - c) Drawing, Painting and Graphic processes (some credit required in each area) (9 hrs.)
 - d) Art History (6 hrs.)
 - 2) In Education (5 hours)
 - a) Educational Psychology or Human Growth and Development (3 hrs.)
 - b) Methods of Teaching Art (2 hrs.)
- 2. Course Requirements for the Degree. They may be met by completing either one of the following two plans of study:
 - a. Plan A. Master of Education with Thesis (minimum 30 hours)
 - 1) Required Courses (15 hours)

- a) Edfs 0801.501 Educational Ideas in Historical Perspective (3 hrs.)
- b) Psyc 2001.511 Developmental Psychology (3 hrs.)
- c) Art 0831.697 Art Education Seminar (3 hrs.)
- d) Art 0831.595 Research in Art and Art Education (3 hrs.)
- e) Art 0831.699 Master of Education Thesis (3 hrs.)
- 2) The Thesis requirement may be met in one of two ways: 1001 or 1001.698 Thesis Project (3 hrs.)
 - a) By writing a standard thesis dealing with a selected problem in Art and Art Education.
 - b) By undertaking a creative project. The Department must approve the project proposal. It is expected that the student will exhibit the completed project and accompany it with a suitable paper defining its scope and philosophy.
- 3) Elective Courses (15 hours)
 - a) Courses numbered 500-699 should ordinarily be chosen, but a maximum of fifteen hours of work in courses numbered 300-499 may be taken with approval of the student's adviser.
 - b) Six hours may be taken in departments other than Art.
- b. Plan B. Master of Education without Thesis (Minimum 33 hours)
 - 1) Required Courses (12 hours)
 - a) Edfs 0801.501 Educational Ideas in Historical Perspective (3 hrs.)
 - b) Psyc 2001.511 Developmental Psychology (3 hrs.) (Formerly Human Growth & Development — Advanced)
 - c) Art 0831.697 Art Education Seminar (3 hrs.)
 - d) Art 0831.595 Research in Art and Art Education (3 hrs.)
 - 2) Elective Courses (21 hours)
 - a) Courses numbered 500-699 should ordinarily be chosen, but a maximum of fifteen hours of work in graduate level courses numbered 300-499 may be taken with approval of the student's adviser.
 - b) Six hours may be taken in departments other than Art.

THE M.ED. IN EARLY CHILDHOOD EDUCATION

The Master of Education degree program in Early Childhood Education is structured to help teachers and others increase their competence for working in education programs for children ages birth through eight years. It is designed to prepare teachers, directors, and supervisors for various education programs for young children such as day care centers, public and private nursery schools, kindergartens, and primary schools.

Requirements:

- 1. Undergraduate Requirements in Education
 - a. Certification as an early childhood education public school teacher
OR
 - b. Certification as an elementary public school teacher plus six semester hours in Early Childhood Education at the undergraduate level
OR
 - c. Courses in the following areas (total: 15 hours):
 - 1) General Psychology, Educational Psychology, or Psychology of Learning (3 hrs.)
 - 2) Child Psychology, Child Growth and Development, Human Growth and Development, or Personality (3 hrs.)
 - 3) Curriculum and Methods in Early Childhood Education (6 hrs.)
 - 4) Three hours chosen from the following areas:

- a) History of Education
- b) Foundations of Education
- c) Philosophy of Education
- d) Principles of Education
- e) Sociology of Education

NOTE: These courses cannot be used to meet part of the formal elective requirements for the degree as defined below.

2. Course Requirements for the Degree. They may be met by completing either one of the following two plans of study:

a. Plan A. Master of Education with Thesis (Minimum 30 hours)

1) Required Courses (12 hours)

- a) Edfs 0801.501 Educational Ideas in Historical Perspective (3 hrs.)
- b) Edpm 0801.691 Introduction to Research in Education (3 hrs.)
- c) Edpm 0823.599 Master's Thesis in Early Childhood Education (3 hrs.)
- d) Psyc 2001.511 Developmental Psychology (3 hrs.)

2) Elective Courses (18 hours)

- a) Twelve hours must be earned in departments other than education. Fewer than twelve hours may be earned in departments other than education with approval of the Program Coordinator.
- b) Selection of courses should be made with the advice and approval of the Program Coordinator. Each program of study is designed to meet the needs and interests of the individual student.
- c) At least six hours must be selected from courses numbered 500-699.

b. Plan B. Master of Education without Thesis (Minimum 33 hours)

1) Required Courses (12 hours)

- a) Edfs 0801.501 Educational Ideas in Historical Perspective (3 hrs.)
- b) Educ 0823.573 Seminar in Early Childhood Education (3 hrs.)
- c) Edpm 0801.691 Introduction to Research in Education (3 hrs.)
- d) Psyc 2001.511 Developmental Psychology (3 hrs.)

2) Elective Courses (21 hours)

- a) Twelve hours must be earned in departments other than education. Fewer than twelve hours may be earned in departments other than education with the approval of the Program Coordinator.
- b) Selection of courses should be made with the advice and approval of the Program Coordinator. Each program of study is designed to meet the needs and interests of the individual student.
- c) At least six hours must be selected from courses numbered 500-699.

THE M. ED. IN ELEMENTARY EDUCATION

The Master of Education degree program in Elementary Education consists of required and elective courses combined into an individual plan which helps the student broaden and deepen his understandings, improve skills and insights related to elementary teaching, and pursue his particular professional goals. In required courses and experiences he is provided with opportunities to clarify philosophical and psychological bases of teaching-learning to examine recent educational developments and to grow in the spirit and skills of inquiry, and to experience the value of sound interpersonal relations in his life experience.

The Graduate Program in Elementary Education seeks to evaluate and build upon the student's undergraduate program and his professional experience. In order to enable the in-service teacher to continue his progress toward the achievement of his academic and professional goals, the Master of Education

degree program in Elementary Education seeks to: assist the student in assessing his level of competency as a teacher and to build upon his educational and professional experience; work with the student in planning a program of study which will facilitate the achievement of individual goals; provide avenues through which the individual may continue to grow in understanding, involvement in, and appreciation of the emerging society; help the student to extend his teaching competencies to new levels of development; encourage a spirit of inquiry and to teach research skills that will be useful in continuing study; help the student acquire a deepening functional understanding of human growth and development; guide the student toward understanding his role as a facilitator of change within the educational enterprise.

Requirements:

1. Prerequisite Requirements

- a. Certification as an elementary public school teacher
OR

- b. Courses in the following areas (total: 12 hours):

- 1) Educational Psychology or Human Growth and Development (3 hrs.)
- 2) Organization and Curriculum of the Elementary School (6 hrs.)
- 3) Three hours chosen from the following areas:
 - a) History of Education
 - b) Foundations of Education
 - c) Philosophy of Education
 - d) Sociology of Education

NOTE: These courses cannot be used to meet part of the formal elective requirements for the degree as defined below.

2. Course Requirements for the Degree. They may be met by completing either one of the following two plans of study:

- a. Plan A. Master of Education with Thesis (Minimum 30 hours)

- 1) Required Courses (12 hours)

- a) Edfs 0801.501 Educational Ideas in Historical Perspective (3 hrs.)
- b) Edpm 0801.691 Introduction to Research in Education (3 hrs.)
- c) Edpm 0802.699 Master's Thesis in Elementary Education (3 hrs.)
- d) Psc 2001.511 Developmental Psychology (3 hrs.)

- 2) Elective Courses (18 hours)

- a) After admission and prior to his first registration, the student must plan a Program of Study with his Adviser. This Program of Study is designed to meet the needs and interest of the individual student. It may be changed only with the consent of the Adviser.
- b) At least six hours must be selected from courses numbered 500-699.

- b. Plan B. Master of Education without Thesis (Minimum 33 hours)

- 1) Required Courses (12 hours)

- a) Edfs 0801.501 Educational Ideas in Historical Perspective (3 hrs.)
- b) Edpm 0801.691 Introduction to Research in Education (3 hrs.)
- c) Educ 0802.675 Seminar in Elementary Education (3 hrs.)
- d) Psc 2001.511 Developmental Psychology (3 hrs.)

- 2) Elective Courses (21 hours)

- a) After admission and prior of his first registration, the student must plan a Program of Study with his Advisor. This Program of Study is designed to meet the needs and interests of the individual student. It may be changed only with the consent of the Advisor.
- b) At least six hours must be selected from courses numbered 500-699.

THE M. ED. IN MUSIC EDUCATION

The Master of Education degree program in Music Education incorporates the faculties, physical facilities, and course offerings of both Towson State University and Morgan State University. In addition to a beneficial interaction between the two institutions, this cooperative Master's Degree program offers the student broader and deeper understandings in realizing his professional goals. Most basic courses will be offered at both institutions; and, in such cases, textbooks and syllabi of comparable content will be used. However, certain required courses and certain elective courses will be offered on only one campus.

Requirements:

1. Undergraduate Requirements in Education and Music
 - a. Hold a Bachelor's degree from an accredited college or university and certification as a public school music teacher
OR
Hold a Bachelor's degree from an accredited college or university with a minimum of 49 hours in undergraduate music courses
 - b. Grade point average of 3.0 or better in music courses
 - c. Be interviewed by the graduate coordinator
2. Course Requirements for the Degree. These may be met by completing one of the following two plans of study:
 - a. Plan A. Master of Education in Music Education with Thesis (Minimum 30 hours)
 - 1) Required Courses (12 hrs).

T indicates course offered at Towson State University
M indicates course offered at Morgan State University
(consult Morgan State University Graduate Bulletin for course numbers)

 - a) T Edfs 0801.501 Educational Ideas in Historical Perspective (3 hrs).
 - b) T Psyc 2001.511 Developmental Psychology (3 hrs).
 - c) TM Musc 1005.595 Research in Music and Music Education (3 hrs).
 - d) TM Musc 1005.501 Seminar in Current Trends in Music and Music Education (3 hrs).
 - 2) Required Courses (3 hours) (Select one)
 - a) T Musc 1005.562 Seminar in Choral Music (3 hrs).
 - b) M Musc Seminar in Instrumental Music (3 hrs).
 - 3) T Musc 1005.697 Thesis Project (3 hrs.) or 1005.699 Thesis (3 hrs.)

This requirement may be met in one of the following ways:

 - a) By writing a thesis dealing with a selected problem in Music or Music Education (1005.699)
 - b) By writing an original composition of major proportions and a paper concerning salient aspects of the composition level (1005.697)
 - c) By presenting a full recital on the graduate level (1005.697)
 - 4) Elective Courses (12 hours) (Selected from three areas)

Area I (3-6 hours)

 - a) T Musc 1005.401 Music Prior to 1600 (3 hrs).
 - b) T Musc 1005.402 Music of the Baroque Period (3 hrs.)
 - c) T Musc 1005 Music of the Classical Period (3 hrs.)
 - d) T Musc 1005.404 Music of the Romantic Period (3 hrs).

- e) T Musc 1005.405 Contemporary Music (3 hrs).
- f) T Musc 1005.411 Survey of Opera
- g) T Musc 1005.413 Symphonic Literature (3 hrs).
- h) T Musc 1005.421 American Music (3 hrs).
- i) M Musc Advanced Choral Literature (3 hrs).
- j) M Musc Evolution of Afro-American Music (3 hrs).
- k) M Musc Seminar in Non-Western Music (3 hrs).
- Area II (3-6 hours)
- a) TM Musc 1005.435 Form and Analysis (3 hrs).
- b) TM Musc 1005.431 Advanced Choral and Instrumental Arranging (3 hrs).
- c) T Musc 1005.433 Advanced Theory (3 hrs).
- d) T Musc 1005.539 Music Composition (3 hrs).
- e) T Musc 1005.427 Jazz Arranging (3 hrs).
- f) M Musc Advanced Orchestration (3 hrs).
- g) M Musc Electronic Music (3 hrs).
- Area III (3-6 hours)
- a) TM Musc 1005.407 Organization and Administration of Music Education (3 hrs).
- b) TM Musc 1005.471 through Musc 1005.488 Private Instruction: Piano, Instrumental, Voice, Composition (1-3 hrs).
- c) TM Musc 1005.571 through Musc 1004.588 Private Instruction: Piano, Instrumental, Voice, Composition (1-3 hrs).
- d) T Musc 1004.409-410 Teaching String Instruments (3 hrs).
- e) T Musc 1004.424 Advanced Woodwinds (3 hrs).
- f) T Musc 1004.425 Advanced Percussion (3 hrs).
- g) T Musc 1005.429 Jazz Improvisation (3 hrs).
- h) M Musc Opera Workshop (3 hrs).
- i) M Musc Musical Theatre (3 hrs).
- j) M Musc Vocal Piano Pedagogy (3 hrs).
- k) M Musc Piano Pedagogy (3 hrs).
- l) M Musc Advanced Strings (3 hrs).
- m) M Musc Advanced Brass (3 hrs).
- n) M Musc The Art of Accompanying (3 hrs).
- b. Plan B. Master of Education in Music Education without Thesis
(Minimum 33 hours plus a research paper in one of the seminar courses)
- 1. Required Courses (15 hours)
Same as above, but does not require Musc 1005.699 Thesis or 1005.697 Thesis Project.
- 2. Elective Courses (18 hours)
Area I As Above (3-9 hours)
Area II As Above (3-9 hours)
Area III As Above (3-9 hours)

THE M. ED. IN READING

The Master of Education degree program in Reading is a program offered cooperatively by Towson State University and Morgan State University. It is designed to offer experiences that will improve the teaching of reading at all levels from kindergarten through college. Specifically, the program seeks to offer courses in reading for teachers and administrators who are interested in improving their knowledge of reading and to prepare reading clinicians to teach developmental, corrective, and remedial reading. Furthermore, the program is designed to prepare reading specialists who will be capable of filling leadership roles in reading improvement programs in schools and clinics.

Requirements:

1. Undergraduate Requirements in Education
Bachelor's degree from accredited college or university
2. Course Requirements for the Degree (Minimum 33 hours)
These requirements may be met by completing the following:
 - a. Required Reading Courses (12 hours)
T indicates course offered at Towson State University
M indicates courses offered at Morgan State University
 - 1) T Educ 0801.623 Methods and Materials in Teaching Reading in Elementary School (3 hrs.)
 - 2) T Educ 0801.621 Reading Disabilities (3 hrs.)
 - 3) E Educ 0801.625 Clinic Practicum in Reading (3 hrs.)
 - 4) T Educ 0801.629 Seminar in Reading (3 hrs.)
M Educ 0801.507 Seminar in Reading (3 hrs.)
 - b. Additional Required Courses (12 hrs.)
 - 1) T Edfs 0801.501 Educational Ideas in Historical Perspective (3 hrs.)
 - 2) T Psyc 2001.511 Development Psychology (3 hrs.)
 - 3) T Psyc 2001.411 Tests and Measurements in Education (3 hrs.) or T Educ 0801.414 Educational Tests and Measurements (3 hrs.)
 - 4) T Psyc 2001.540 Advanced Mental Hygiene (3 hrs.)
 - c. Elective Courses (9 hrs.)
 - 1) M Engl 1501.561 Introduction to Linguistics (3 hrs.)
 - 2) M Engl 1501.590 Phonetics of American English (3 hrs.)
 - 3) T Psyc 2001.605 Principles of Guidance (3 hrs.)
 - 4) T Edpm 0801.417 Children's Literature or
T Edpm 0801.418 Literature for the Adolescent (3 hrs.)
 - 5) M Educ 0802.501 Supervision and Curriculum in Reading (3 hrs.)
 - 6) T Educ 0801.627 Evaluation of Reading Research (3 hrs.)
 - 7) M Educ 0802.508 Teaching Reading in the Secondary School (3 hrs.)
 - 8) T Engl 1501.430 History of the English Language (3 hrs.)
 - 9) T Educ 0801.425 Corrective Reading (3 hrs.)

NOTE: 1: The "Clinic Practicum in Reading" will be taught at Towson State University.

NOTE: 2: The "Seminar in Reading" course will be one of the final courses in the sequence. This course will be taught at Morgan State University by professors from both Towson State University and Morgan State University. Consultants from other disciplines (medical, social, etc.) will also be invited to lecture to this advanced group.

NOTE: 3: The elective courses will be taken at either Towson State University or Morgan State University with the permission of the director of the respective program.

NOTE: 4: Other elective courses may be substituted with the permission of the director of the respective program.

THE M.ED. IN SECONDARY EDUCATION

SPECIALIZATIONS OFFERED: EDUCATION, ENGLISH, FOREIGN LANGUAGE, GEOGRAPHY, HEALTH, MATHEMATICS,, PHYSICAL EDUCATION, READING

The Master of Education degree program in Secondary Education is designed to help teachers develop competencies that will contribute to success in their educational responsibilities. The program provides advanced study in the general areas of education, psychology, and a teaching field.

Opportunities are given for the graduate student to pursue certain areas of interest through provisions for elective courses. In addition to currently offered specializations in teaching areas, others are being prepared. Contact the coordinator of the program for additional information.

Requirements:

1. Undergraduate Requirements in Education
 - a. Certification as a secondary public school teacher
OR
 - b. Courses in the following areas:
 - 1) Educational Psychology or Human Growth and Development
 - 2) Principles and Methods in Secondary Education
 - 3) Three hours chosen from the following areas:
 - a) History of Education
 - b) Foundations of Education
 - c) Philosophy of Education
 - c. Additional requirements for admission to specific areas of specialization.
 - 1) Specialization in English
A Bachelor's Degree in English, or a minimum of 24 semester hours of English courses. At least 12 semester hours must be in upper-division English courses.
 - 2) Specialization in Geography
A Bachelor's Degree with a major in geography, or a minor in geography, or the equivalent conferred by a recognized college or university.
 - 3) Specialization in Health
 - a) An Undergraduate Degree in Health Education or Health Science
OR
 - b) A minimum of 24 hours of course work in Health Education and related sciences as determined by the Health Science Department at Towson State College
 - 4) Specialization in Mathematics
A Bachelor's Degree with a major in mathematics, or a minor in mathematics, or the equivalent.
 - 5) Specialization in Foreign Language (French or Spanish)
 - a) An Undergraduate Degree in French or Spanish
OR
 - b) A minimum of 24 semester hours of course work in French or Spanish. At least 12 semester hours must be upper-division courses.
 - 6) Specialization in Physical Education
 - a) A minimum of 24 hours of course work in Physical Education
 - b) Approval by a screening committee composed of graduate faculty in Physical Education
2. Program options. Students must select either Program A (Master of Education in Secondary Education with a specialization in Education) or Program B (Master of Education in Secondary Education with a specialization in a Teaching Area).
3. Course Requirements for the Degree. They may be met by completing one of the plans in Program A or Program B.
 - a. Program A (Specialization in Education)
Thesis Plan (Minimum 30 hours)
 - 1) Required courses (12 hours)
Nine hours in Education:

- Educ 0801.501 Educational Ideas in Historical Perspective (3 hrs.)
- Educ 0801.691 Introduction to Research in Education (3 hrs.)
- Educ 0803.699 Master's Thesis in Secondary Education (3 hrs.)
- Three Hours in Psychology:**
- Psyc 2001.511 Developmental Psychology (3 hrs.)
- 2) Elective Courses (18 hours). At least six hours must be selected from courses numbered 500-699. Educational electives will be planned in terms of the needs and goals of the individual student and must be approved by the adviser.
 - Category A—9 hours in Education
 - Category B—6 hours in departments other than Education
 - Category C—3 hours from any department, including Education
- Non-Thesis Plan (Minimum 33 hours)
- 3) Required Courses (12 hours)
 - Nine hours in Education**
 - Educ 0801.501 Educational Ideas in Historical Perspective (3 hrs.)
 - Educ 0801.691 Introduction to Research in Education (3 hrs.)
 - Educ 0803.681 Seminar in Secondary Education (3 hrs.)
 - Three hours in Psychology**
 - Psyc 2001.511 Developmental Psychology (3 hrs.)
- 4) Elective Courses (21 hours). At least six hours must be selected from courses numbered 500-699. Educational electives will be planned in terms of the needs and goals of the individual student and must be approved by the adviser.
 - Category A—9 hours in Education
 - Category B—6 hours in departments other than Education
 - Category C—6 hours from any department, including Education
- b. Program B (Specialization in a Teaching Area)
- Thesis Plan (Minimum 33 hours)
 - 1) Required courses are identical to those in Program A. Thesis Plan. Students in the Physical Education Specialization may substitute 0835.509, Psychology of Motor Learning, for 2001.511, Developmental Psychology.
 - 2) Elective courses (21 hours). These are to be selected from courses approved by the Graduate Advisor, and must include a minimum of six hours at the 500-600 level.
- Non-Thesis Plan (Minimum 36 hours)
 - 3) Required courses are identical to those in Program A, Non-Thesis Plan. Students in the Physical Education Specialization may substitute 0835.509, Psychology of Motor Learning, for 2001.511 Developmental Psychology.
 - 4) Elective Courses (24 hours). These are to be selected from courses approved by the Graduate Adviser, and must include a minimum of six hours at the 500-600 level.

COURSE DESCRIPTIONS

Course descriptions for all 500-level and 600-level courses offered by the College are listed in this section of the Bulletin. Course titles for 300-level and 400-level courses that carry graduate credit are also listed in this section of the bulletin. Course descriptions for 300-level and 400-level courses may be found in the 1976/1977 Towson State University Bulletin.

Courses offered in any session are selected from the courses listed. Students should consult the course schedules issued by the Registrar's Office and the Evening and Summer School Office to determine the courses offered in particular session.

Semesters of a year course whose numbers are assigned by a hyphen are to be taken in sequence. When course numbers are separated by a comma, either semester may be taken independently of the other. Old course numbers appear in parenthesis.



Art

Chairperson: Thomas G. Supensky
Graduate Studies Coordinator:
Art Education Program: John B. Mitchell

ART COURSES (1001 Art and 0831 Art Education)

Upper Division—Undergraduate and Graduate

- 1001.314 THE ART OF ENAMELING ON METAL (3)
- 1001.318 JEWELRY (3)
- 1001.323 PICASSO TO THE PRESENT (3)
- 1001.324 HENRY MOORE TO THE PRESENT (3)
- 1001.325 FRANK LLOYD WRIGHT TO THE PRESENT (3)
- 1001.326 FABRIC DESIGN (3)
- 1001.328 WEAVING AND FIBER CONSTRUCTION (3)
- 1001.334 PHOTOGRAPHY II (3)
- 1001.335 COLOR PHOTOGRAPHY I (3)
- 1001.339 METAL SCULPTURE (3)
- 1001.340 SCULPTURE STUDIO: MODELING (3)
- 1001.342 SCULPTURE STUDIO: CARVING (3)
- 1001.343 GREEK AND ROMAN ART (3)
- 1001.344 BYZANTINE TO GOTHIC ART (3)
- 1001.345 ITALIAN RENAISSANCE ART: 15th-16th CENTURIES (3)
- 1001.346 THE BAROQUE AND 18th CENTURY (3)
- 1001.405 ART PRINCIPLES AND CRITICISM (3)
- 1001.414-415-416 ADVANCED STUDIO (2-3, 2-3, 2-3)
- 1001.418 JEWELRY II (3.0)
- 1001.431 ADVANCED CERAMICS (3)
- 1001.433 ADVANCED PAINTING: OILS (3)
- 1001.434 ADVANCED PAINTING: WATERCOLOR (3)
- 1001.440 ADVANCED SCULPTURE STUDIO (3)
- 1001.449 INTAGLIO PROCESS (3)
- 1001.451 LITHOGRAPHIC PROCESS (3)
- 1001.461 INTRODUCTION TO ART THERAPY I (3)
- 1001.462 INTRODUCTION TO ART THERAPY II (3)
- 1001.485 SEMINAR IN ART HISTORY (3)

ART EDUCATION COURSES (0831)

- 0831.471 ADVANCED ART EDUCATION (3)

Graduate Division

1001.511 DRAWING (3) Advanced problems in expressive draftsmanship. Prerequisite: 1001.211 or consent of instructor.

1001.514-515-516 GRADUATE STUDIO (2-3,2-3,2-3) Independent work for graduate students in field of special interest. Prerequisite: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of her/his choice.

1001.529 OIL PAINTING (3) For students with previous experience in painting, consideration of current trends and styles; studio work, museum visits, lectures. Prerequisite: 1001.329 or equivalent.

1001.530 WATERCOLOR (3) Consideration of current trends and outstanding painters and styles. Studio work, museum visits, lectures. Prerequisite: 1001.330 or consent of instructor.

1001.531 CERAMICS (3) Advanced work in ceramic design and techniques of glazes, clay bodies, firing. Prerequisite: 1001.331 or consent of instructor.

1001.540 SCULPTURE (3) For students with previous experience in sculpture; consideration of current trends and styles; studio work, museum visits, lectures. Prerequisite: 1001.340 or 1001.342 or 1001.241 or 1001.339 or consent of instructor.

1001.551 GRAPHICS: INTAGLIO, RELIEF (3) Studio work of artists with a basic knowledge of intaglio and/or relief processes. Aspects of mixed media explored. Prerequisite: 1001.349 or 1001.449 or equivalent.

1001.553 GRAPHICS: LITHOGRAPHY, SERIGRAPHY (3) Studio work for artists with a basic knowledge of lithography and/or serigraphy. Prerequisite: 1001.347 or 1001.451 or equivalent.

1001.698 THESIS PROJECT (3) If approved, student will pursue his/her project in an exhibition of his/her work plus a paper defining the project's scope and philosophy. Prerequisite: Consent of department chairperson.

1001.699 THESIS (3) A carefully executed research and accurate recording of a specific topic in art, art education, art history or other approved area. Includes an outline of the proposed thesis submitted for inspection and approval by the Art Department Graduate Advisor. Prerequisite: 1001.697.

ART EDUCATION COURSES (0831)

0831.595 RESEARCH IN ART AND ART EDUCATION (3) Methods of research applicable to art and art education. Examination of recent research in this field. Preparation of research outline in area of choice. Prerequisite: Consent of instructor.

0831.697 SEMINAR IN ART EDUCATION (3) Investigation of problems and theories in art education and related fields. To be taken as final course in Master's program. Prerequisite: 0831.595 and consent of instructor.



Biological Sciences

Chairperson: Richard Hilton

Graduate Studies Coordinator:

Biology Program: James E. Ewig

BIOLOGY COURSES (0401)

Upper Division—Undergraduate and Graduate

- 0401.301 FIELD NATURAL SCIENCE (4)
- 0401.303 LIFE SCIENCE IN THE ELEMENTARY SCHOOL (3)
- 0401.305 ELECTRON MICROSCOPY (4)
- 0401.310 ENVIRONMENTAL CONSERVATION (4)
- 0401.315 MEDICAL MICROBIOLOGY (4)
- 0401.318 MICROBIOLOGY (4)
- 0401.322 MICROTÉCHNIQUE (4)
- 0401.331 FIELD AND SYSTEMATIC BOTANY (4)
- 0401.341 PHYCOLOGY (4)
- 0401.345 MYCOLOGY (4)
- 0401.351 FIELD AND SYSTEMATIC VERTEBRATE ZOOLOGY (4)
- 0401.353 INVERTEBRATE ZOOLOGY (4)
- 0401.360 HISTOLOGY (3)
- 0401.367 GENERAL ENDOCRINOLOGY (3)
- 0401.368 EXPERIMENTAL ENDOCRINOLOGY (2)
- 0401.371 ANIMAL BEHAVIOR (4)
- 0401.381 BIOLOGICAL LITERATURE (2)
- 0401.383 HISTORY OF BIOLOGICAL CONCEPTS (3)
- 0401.385 SELECTED GENERAL PRINCIPLES IN BIOLOGY (3)
- 0401.387 BIOLOGY IN SOCIETY (3)
- 0401.395 COURSE RESEARCH (1)
- 0401.401 GENETICS (4)
- 0401.402 GENERAL ECOLOGY (4)
- 0401.403 ADVANCED GENETICS
- 0401.404 ECOLOGICAL TECHNIQUES (3)
- 0401.406 LIMNOLOGY (4)
- 0401.408 CELL BIOLOGY (4)
- 0401.411 WILDLIFE BIOLOGY (4)
- 0401.421 IMMUNOLOGY (4)
- 0401.429 BIOANALYSIS (3)
- 0401.431 HORTICULTURE (4)
- 0401.432 VASCULAR PLANT TAXONOMY (4)
- 0401.433 PLANT SPECIATION (3)
- 0401.436 PLANT PHYSIOLOGY (4)
- 0401.439 PLANT ANATOMY (4)
- 0401.441 PLANT PATHOLOGY (4)
- 0401.456 ORNITHOLOGY (4)
- 0401.458 MAMMALOLOGY
- 0401.461 ENTOMOLOGY (4)
- 0401.463 ANIMAL EMBRYOLOGY (4)
- 0401.465 ANIMAL PHYSIOLOGY (4)
- 0401.467 HERPETOLOGY (4)
- 0401.481 DIRECTED READINGS IN BIOLOGY (1-3)
- 0401.486 SEMINAR: SPECIAL TOPICS IN BIOLOGY (1-2)
- 0401.491 INDEPENDENT RESEARCH IN BIOLOGY (2-3)

0401.494 TRAVEL STUDY (1-3)
0401.495 COURSE RESEARCH (1)

Graduate Division

0401.501 CURRENT TOPICS IN BIOLOGY (3) Discussion of current topics in a specific area of biology. The area will vary each time the course is offered. A maximum of 3 credits allowable for MS degree in Biology. Prerequisite: A suitable background in the area emphasized.

0401.505 PROBLEMS IN BIOLOGY (1-3) Laboratory or literature research on a particular problem of interest to the student that does not pertain to his thesis. Regular conferences with the instructor are required. A preliminary paper is submitted for discussion, suggestions and corrections. The final paper should incorporate the necessary changes. Credits to be arranged by consultation with the instructor. A maximum of 3 credits allowable for MS degree in Biology.

0401.507 PHYSIOLOGICAL ANIMAL ECOLOGY (4) A study of the physiological responses of animals to varying ecological conditions. Prerequisites: 0401.304, 0401.465.

0401.509 AQUATIC BIOLOGY (4) A study of freshwater and brackish water plants and animals of the local area with a field emphasis. Several representative habitats are considered comparatively, using various methods of collecting and identifying species of the fauna and flora. Prerequisites: 0401.331, 0401.351, 0401.353 or consent of instructor.

0401.532 PLANT BIOSYSTEMATICS (4) A study of the techniques employed in the analysis of vascular plant life histories and species variation. Local plant populations and species are used in these studies. Prerequisites: 0401.331, 0401.432 recommended.

0401.533 PLANT MORPHOGENESIS (4) The morphological growth and development of plants in response to natural and artificial stimuli at the cellular, tissue, and organ level. Prerequisite: 0401.439.

0401.535 PHYSIOLOGICAL PLANT ECOLOGY (4) Physiological interactions between plants and environments at the organism level. Examination of environmental factors including light, water, and nutrients and biological factors including competition and phytotoxins as they affect the physiology and distribution of plants. Prerequisites: 0401.402, 0401.436 recommended, or consent of instructor.

0401.553 BIOLOGY OF TERRESTRIAL AND FRESHWATER INVERTEBRATES (4) An advanced study of invertebrates including classification, physiology, and various ecological parameters influencing distribution of local fauna in freshwater and terrestrial habitats. Parasites and terrestrial insects are excluded. Prerequisites: 0401.353 or consent of instructor.

0401.561 INSECT ECOLOGY (4) A study of insect communities and populations emphasizing conditions of the environment that favor abundance of insects in various habitats. Field work involves examination of various aquatic and terrestrial habitats. Prerequisites: 0401.461; 0401.353 recommended.

0401.581 RECENT ADVANCES IN BIOLOGY (4) A study of current factual and technological advances in the five following areas: botany, zoology, ecology, genetics and evolution, cellular and molecular biology. Completion of this course with a grade of "B" or better fulfills the Departmental Advancement to Degree Candidacy Examination requirement. Prerequisites: 9 graduate credits in biology.

0401.601 NON-THESIS LABORATORY RESEARCH (3) An individual laboratory research project is conducted with the guidance of a graduate faculty

advisor after approval of the research proposal by the research committee. Credit granted after the paper has been successfully defended to the student's research committee. Prerequisites: Advancement to degree candidacy.

0401.603 NON-THESIS LIBRARY RESEARCH (3) A professional paper is prepared with the guidance of a graduate faculty advisor after approval of the topic by a research committee. The paper is based upon an extensive literature survey. The student can expect to make several revisions before an acceptable paper is achieved. Credit granted upon successful defense of the paper to the research committee. Prerequisite: Advancement to Degree Candidacy.

0401.697 GRADUATE SEMINAR (1) Student reports and discussion dealing with biological research. An outline of the seminar and a bibliography are required. A maximum of 1 credit allowable for MS degree in Biology.

0401.699 THESIS (6) An original investigation to be pursued under the direction of one or more faculty members. Credit granted only after thesis has been accepted by the student's thesis committee.



Business Administration

Chairperson: William R. Brown

BUSINESS ADMINISTRATION COURSES (0506)

Upper Division—Undergraduate and Graduate

0506.481 ADVANCED BUSINESS POLICY WORKSHOP (3)

Chemistry

Chairperson: Alan S. Wingrove

CHEMISTRY COURSES (1905)

Upper Division—Undergraduate and Graduate

- 1905.341 PHYSICAL CHEMISTRY—THERMODYNAMICS (3)
- 1905.342 PHYSICAL CHEMISTRY—STRUCTURE AND KINETICS (3)
- 1905.343 PHYSICAL CHEMISTRY LABORATORY I (1)
- 1905.344 PHYSICAL CHEMISTRY LABORATORY II (1)
- 1905.351 ESSENTIALS OF BIOCHEMISTRY (3)
- 1905.352 ESSENTIALS OF BIOCHEMISTRY LABORATORY (2)
- 1905.353 BIOCHEMISTRY (5)
- 1905.361 CHEMICAL AND BACTERIOLOGICAL STUDIES ON WATER POLLUTION (3)
- 1905.363 CHEMISTRY OF DANGEROUS DRUGS (3)
- 1905.391 SPECIAL PROBLEMS IN CHEMISTRY (1-3)
- 1905.401 SEMINAR IN CHEMISTRY (1)
- 1905.411 INSTRUMENTAL METHODS OF ANALYSIS (5)
- 1905.412 ADVANCED ANALYTICAL CHEMISTRY (3)
- 1905.422 INORGANIC CHEMISTRY (4)
- 1905.431 ADVANCED ORGANIC CHEMISTRY LABORATORY (3)
- 1905.432 ADVANCED ORGANIC CHEMISTRY (3)
- 1905.441 ADVANCED PHYSICAL CHEMISTRY (3)
- 1905.452 ADVANCED BIOCHEMISTRY (3)
- 1905.453 ADVANCED BIOCHEMISTRY LABORATORY (2)
- 1905.491-492-493 INTRODUCTION TO RESEARCH IN CHEMISTRY (1-3)

Communication Arts and Sciences

Chairperson: Bill L. Wallace
Graduate Studies Coordinator; Speech
Pathology and Audiology Program:
Charles Lonegan, Jr.

MASS COMMUNICATION COURSES (0605)

Upper Division—Undergraduate and Graduate

- 0605.315 BUSINESS AND PROFESSIONAL SPEECH (3)
- 0605.351 PUBLIC OPINION AND THE PRESS (3)
- 0605.353 PUBLICITY AND PUBLIC RELATIONS (3)
- 0605.356 FEATURE WRITING (3)
- 0605.358 NEWS EDITING AND COPY READING (3)
- 0605.361 ADVANCED TELEVISION TECHNIQUES (3)
- 0605.363 HISTORY OF FILM (3)
- 0605.364 AESTHETICS OF THE FILM (3)
- 0605.367 TELEVISION WRITING (3)
- 0605.385 MASS MEDIA IN MODERN SOCIETY (3)
- 0605.475 FILM WORKSHOP (3)
- 0605.485 NEWSPAPER IN THE CLASSROOM WORKSHOP (3)
- 0605.491 INDEPENDENT STUDY IN FILM (1-6)
- 0605.493 INDEPENDENT STUDY IN RADIO (1-6)
- 0605.495 INDEPENDENT STUDY IN TELEVISION (1-6)
- 0605.496 INDEPENDENT STUDY IN JOURNALISM (1-6)
- 0605.497 INDEPENDENT STUDY IN PUBLIC RELATIONS (1-6)

SPEECH PATHOLOGY AND AUDIOLOGY COURSES (1220)

Upper Division—Undergraduate and Graduate

- 1220.302 SPEECH PATHOLOGY I (3)
- 1220.304 SPEECH PATHOLOGY II (3)
- 1220.305 STUTTERING—ETIOLOGY AND THERAPY (3)
- 1220.306 SPEECH PATHOLOGY III (3)
- 1220.321 INTRODUCTION TO AUDIOLOGY (3)
- 1220.400 ANATOMY AND PHYSIOLOGY OF THE AUDITORY AND VOCAL MECHANISM (3)
- 1220.404 PROFESSIONAL PROGRAM PROBLEMS AND RELATIONSHIPS (3)
- 1220.407 AURAL HABILITATION/REHABILITATION (3)
- 1220.408 SPECIAL PROBLEMS SEMINAR/CLEFT PALATE (3)
- 1220.409 SPEECH AND LANGUAGE FOR THE DEAF CHILD (3)
- 1220.410 SPECIAL PROBLEMS PRACTICUM CLEFT PALATE (3)
- 1220.411 SEMINAR/WORKSHOP IN SPEECH PATHOLOGY AND AUDIOLOGY/SPEECH AND LANGUAGE DEVELOPMENT FOR THE SPEECH AND LANGUAGE DEPRIVED (6)
- 1220.414 SPECIAL PROBLEMS SEMINAR (3)
- 1220.421 SEMINAR/WORKSHOP—HEARING IMPAIRED (6)
- 1220.431 IDENTIFICATION AUDIOMETRY (3)
- 1220.441 INDUSTRIAL AND ENVIRONMENTAL AUDIOLOGY (3)
- 1220.451 AUDIOLOGICAL MANAGEMENT OF THE EXCEPTIONAL CHILD (3)

- 1220.461 HEARING AID SELECTION PROCEDURES AND SPEECH
AUDIOMETRY (3)
- 1220.481 DIALECTS OF ETHNIC GROUPS IN AMERICAN SOCIETY (3)
- 1220.486 CLINICAL OBSERVATION AND TECHNIQUES (3)
- 1220.487 CLINICAL PRACTICUM I (1-3)
- 1220.488 CLINICAL PRACTICUM II (6-9)
- 1220.489 CLINICAL COUNSELING IN AUDIOLOGY AND SPEECH
PATHOLOGY (3)
- 1220.490 VOICE DISORDERS: ETIOLOGY, DIAGNOSIS, TREATMENT AND
RESEARCH (3)
- 1220.491 ARTICULATION DISORDERS: ETIOLOGY, DIAGNOSIS,
TREATMENT AND RESEARCH (3)
- 1220.496 INDEPENDENT STUDY IN SPEECH PATHOLOGY AND
AUDIOLOGY (1-4)
- 1220.497 DIRECTED READINGS IN SPEECH PATHOLOGY AND
AUDIOLOGY (1-4)
- 1220.498 PROCTORING IN SPEECH AND LANGUAGE PATHOLOGY
AND AUDIOLOGY (3)

Graduate Division

1220.501 LANGUAGE DISORDERS OF CHILDREN (3) Investigation of mental retardation, emotional disturbance and hearing loss in children in terms of speech and language disorders. Prerequisite: 1220.105, 1220.302

1220.505 NEUROPATHOLOGIES OF SPEECH (3) Etiology, nature and management of cerebral palsy and minimal brain damage in children, and dysphasia in adults. Prerequisite: 1220.306 and 1220.487

1220.507 DIAGNOSTIC METHODS IN SPEECH PATHOLOGY (3) Standardized and non-standardized techniques for testing the speech, language and general intellectual functioning of child and adults. Practicum experience in speech evaluations and report writing. Prerequisite: 1220.485, 1220.505

1220.511 APPLICATION OF LINGUISTICS TO SPEECH PATHOLOGY (3) Investigation of traditional and contemporary research in the area of psycholinguistics and generative grammar. Application of this to diagnosis and management of those with language disorders. Prerequisite: 1220.105

1220.513 INTRODUCTION TO RESEARCH IN SPEECH PATHOLOGY AND AUDIOLOGY (1) Discussion of research methods, techniques and needs in speech pathology and audiology. Reading and understanding professional journal articles. Prerequisite: Consent of instructor.

1220.521 DIAGNOSIS OF DISORDERS OF THE AUDITORY SYSTEM (3) This advanced course is designed to provide graduate students in Audiology & Speech Pathology with the history, rationale and procedures of audiotically delineating disorders of the auditory system. Prerequisite: Consent of Instructor.

1220.531 PSYCHOACOUSTIC INSTRUMENTATION & CALIBRATION (3) This advanced course is intended to provide graduate students in Audiology and Speech Pathology with an overview of the devices which form a core of equipment for auditory investigation and some of the principles and problems which accompany their use. Prerequisite: Consent of Instructor.

1220.541 AUDIOLOGY SEMINAR—PSYCHOACOUSTICS (3) This advanced course is intended to provide graduate students in audiology with an opportunity to pursue in-depth studies in psychoacoustics. Prerequisite: Consent of instructor.

1220.542 AUDIOLOGY SEMINAR— BIOACOUSTICS (3) This advanced course is intended to provide graduate students with an opportunity to pursue

in-depth studies in bioacoustics. Prerequisite: Consent of instructor.

1220.543 AUDIOLOGY SEMINAR—NEUROPHYSIOLOGY OF HEARING

(3) This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies in neurophysiology of audition. Prerequisite: Consent of instructor.

1220.544 AUDIOLOGY SEMINAR—CURRENT TOPICS IN AUDITION (3)

This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies of current interest in audition. Prerequisite: Consent of instructor.

1220.645 ADVANCED CLINICAL PRACTICE (2)

Experience in the College Clinic as well as externship in public schools, hospital clinics, and rehabilitation settings with the speech defective. Introduction to the supervision of undergraduate trainees. Prerequisite: 1220.487 and/or professional experience.

1220.695 GRADUATE RESEARCH PAPER IN SPEECH PATHOLOGY AND AUDIOLOGY (3)

Preparation of extensive paper dealing with a current area of research in the field or with the results of a clinical experiment. Prerequisite: Consent of Department.

1220.696 INDEPENDENT STUDY IN SPEECH PATHOLOGY AND AUDIOLOGY (3)

Preparation of extensive paper dealing with professional clinical experiences. Discussion of techniques, innovations, methods employed and recommendations for improvement. Prerequisite: Professional experience.

1220.697 DIRECTED READINGS IN SPEECH PATHOLOGY AND AUDIOLOGY (3)

Directed Readings in selected areas of Speech, Language Pathology and Audiology in order to provide the graduate student an opportunity for a comprehensive coverage of a specially selected area within the broader area of communication disorders and to meet special needs of students. Prerequisites: Graduate standing and invitation of department.

GENERAL SPEECH COURSES (1506)

Upper Division—Undergraduate and Graduate

1506.304 PERSUASION (3)

1506.310 PHONETICS OF AMERICAN ENGLISH (3)

1506.320 READERS THEATRE (3)

1506.395 INDEPENDENT STUDY IN ORAL INTERPRETATION (1-6)

1506.402 HEARING AND SPEECH SCIENCE (3)

1506.411 INDEPENDENT STUDY IN CHAMBER THEATRE (1-6)

1506.423 ADVANCED ORAL INTERPRETATION OF LITERATURE (3)

1506.432 THE COACHING AND MANAGEMENT OF FORENSICS (3)

1506.493 INDEPENDENT STUDY IN READERS THEATRE (1-6)

PUBLIC ADDRESS COURSES (1598)

1598.403 CLASSICAL AND MODERN RHETORIC (3)

1598.405 AMERICAN PUBLIC ADDRESS (3)

1598.406 BRITISH PUBLIC ADDRESS (3)

1598.495 INDEPENDENT STUDY IN PUBLIC ADDRESS (1-6)

Graduate Division

1506.521 EXPERIMENTAL PHONETICS (3) An advanced course in the study of Phonetic Science. Concerned with the application of experimental methods to study and research in voice and phonetics, especially spectrographic analysis. Includes critical review of research literature in Scientific Phonetics. Prerequisite: 1506.310 or consent of instructor.

Economics and Political Science

Chairperson: Michael Grossman

ECONOMICS COURSES (2204)

Upper Division—Undergraduate and Graduate

- 2204.490 INDEPENDENT STUDY (1-3)
- 2204.493 WORKSHOP ON ECONOMIC EDUCATION (3)
- 2204.495 PROSEMINAR ON ECONOMICS ISSUES (3)

POLITICAL SCIENCE COURSES (2207)

Upper Division—Undergraduate and Graduate

- 2207.303 THEORY OF INTERNATIONAL POLITICS (3)
- 2207.305 URBAN GOVERNMENT AND POLITICS (3)
- 2207.307 CONTEMPORARY INTERNATIONAL POLITICS (3)
- 2207.337 COMPARATIVE GOVERNMENT OF FOREIGN POWERS: THE WESTERN WORLD (3)
- 2207.338 COMPARATIVE GOVERNMENT OF FOREIGN POWERS: RUSSIA AND THE EAST (3)
- 2207.339 COMPARATIVE POLITICAL SYSTEMS (3)
- 2207.341 AFRICAN GOVERNMENT AND POLITICS (3)
- 2207.351 THE GOVERNMENT AND POLITICS OF LATIN AMERICA (3)
- 2207.355 THE LATIN AMERICAN POLICY OF THE UNITED STATES (3)
- 2207.359 POLITICAL AND SOCIAL ASPECTS OF REVOLUTION (3)
- 2207.361 POLITICAL BEHAVIOR (3)
- 2207.375 PUBLIC ADMINISTRATION (3)
- 2207.381 THE PRESIDENCY (3)
- 2207.383 CONGRESS (3)
- 2207.401 INTRODUCTION TO LAW (3)
- 2207.417 AMERICAN POLITICAL PARTIES (2)
- 2207.418 CONSTITUTIONAL LAW (3)
- 2207.427 POLITICAL THEORY I (2)
- 2207.428 POLITICAL THEORY II (3)
- 2207.430 POLITICAL IDEAS OF SOCIALISM AND COMMUNISM (3)
- 2207.432 UNITED STATES — SOVIET RELATIONS (3)
- 2207.435 AFRICA IN WORLD POLITICS (3)
- 2207.439 UNITED STATES FOREIGN POLICY IN SOUTHEAST ASIA (3)
- 2207.441 CONTEMPORARY UNITED STATES—WESTERN EUROPEAN RELATIONS (3)
- 2207.445 UNITED STATES FOREIGN POLICY IN SOUTH ASIA (3)
- 2207.450 GROUP POLITICS AND PUBLIC OPINION (3)
- 2207.455-456 INTERNATIONAL LAW AND ORGANIZATION I, II (3,3)
- 2207.461 RESEARCH METHODS IN POLITICAL BEHAVIOR (3)
- 2207.465 EDITORIAL WORK—TOWSON STATE JOURNAL OF INTERNATIONAL AFFAIRS (1)
- 2207.482 SEMINAR IN POLITICAL SCIENCE (3)
- 2207.485 DEMOCRATIC THEORY SEMINAR (3)
- 2207.490 INDEPENDENT STUDY (3)
- 2207.491 SEMINAR IN CONTEMPORARY UNITED STATES FOREIGN POLICY (3)
- 2207.493 PRACTICUM IN POLITICS (3-9)

Education

Chairperson and Director of Teacher Education: Billy Hauserman

Chairperson of Early Childhood Education: Frances Bond

Chairperson of Elementary Education: Edward Holmes

Chairperson of Secondary Education and Foundations of Education:

Director of Field Services: Michael H. Jessup

Director of Reading: Joseph P. Gutkoska

Director of Laboratory Experiences: Chandler Barbour

Associate Director of Laboratory Experiences: James Binko

Director of Research at Learning Resources Center: Norma Hauserman

Director of Professional Programs: Royce W. Van Norman

GRADUATE STUDIES COORDINATORS

Secondary Education Program: Grayson S. Burrier

Elementary Education Program: Richard Williams

Reading Program: Joseph P. Gutkoska

Early Childhood Education Program: Dell Kjer

EARLY CHILDHOOD EDUCATION COURSES (0823)

Upper Division—Undergraduate and Graduate

0823.403 THE CURRICULUM IN PRIMARY EDUCATION (3)

0823.411 PARENTS AND TEACHERS: PARTNERS IN EARLY CHILDHOOD EDUCATION (3)

0823.413 INFANTS AND CHILDREN UNDER THREE (3)

0823.415 THE DAY CARE CENTER (3)

0823.417 LEARNING DISABILITIES IN YOUNG CHILDREN (3)

0823.419 MEASUREMENT AND EVALUATION IN EARLY CHILDHOOD EDUCATION (3)

0823.421 PROBLEMS IN EARLY CHILDHOOD EDUCATION (3)

0823.423 LABORATORY EXPERIENCES IN EARLY CHILDHOOD EDUCATION (3)

0823.425 THE YOUNG BLACK CHILD IN A MULTICULTURAL SOCIETY (3)

0823.470-479 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION (1-3)

0823.494 TRAVEL AND STUDY—EARLY CHILDHOOD EDUCATION (1-6)

0823.495 INDEPENDENT STUDY IN EDUCATION: EARLY CHILDHOOD EDUCATION (1-4)

0823.496 DIRECTED READING: EARLY CHILDHOOD EDUCATION (1-4)

Graduate Division

0823.509 GROWTH AND DEVELOPMENT OF YOUNG CHILDREN (3)

Study of findings of current research in growth and development of young children; methods of studying and evaluating behavior; implications of case study data for curriculum improvement. Prerequisites: 2001.511 and consent of the Department of Early Childhood Education.

0823.515 DAY CARE ADMINISTRATION AND SUPERVISION (3) Theory and practice of day care center operations. The director's role as related to such topics as: financing, staff selection, training, program planning, liason with agencies, community relations, contract negotiation, evaluation and supervision of staff. Prerequisite: 12 credits in Early Childhood Education and 2 years employment in Child Care.

0823.517 LEARNING DISABILITIES IN YOUNG CHILDREN—ADVANCED (3) A clinically oriented course emphasizing psycho-diagnostic techniques designed to meet the needs of experienced teachers who wish special training in identification and remediation of the learning disabled child. Prerequisite: 6 hours Early Childhood Education (3 hours must be 0823.417 or permission of instructor) 6 hours Psychology (Child and Education Psychology).

0823.521 READING IN EARLY CHILDHOOD EDUCATION—ADVANCED (3) Emphasis on contemporary issues; advanced interpretative and critical evaluations of research in reading instruction in light of basic needs, developmental levels, and individual differences in young children. Prerequisite: Undergraduate course in reading and consent of the Department of Early Childhood Education.

0823.547 THE TEACHING PROCESS: EARLY CHILDHOOD EDUCATION (3) Study of recent theories, methods, and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for young children. Prerequisite: Teaching experience. 2001.511 or 0801.501, and consent of Department of Early Childhood Education.

0823.553 PERCEPTUAL AND COGNITIVE DEVELOPMENT OF YOUNG CHILDREN (3) Survey of significant research affecting the theory and programs of education for children ages three to eight years. Prerequisites: 2001.511 and/or 0823.509 and consent of Department of Early Childhood Education.

0823.573 SEMINAR IN EARLY CHILDHOOD EDUCATION (3) Seminar approach to current practices and trends in curriculum, materials, methods, and organization of educational programs for children ages three through eight years. A seminar paper is required. Prerequisites: 9 hours of graduate work in Early Childhood Education and 0801.691.

0823.599 MASTER'S THESIS IN EARLY CHILDHOOD EDUCATION (3)

0823.617 INTERNSHIP IN LEARNING DISABILITIES (3-6) This course is the third of a three semester sequence in learning disabilities designed to give students an opportunity to teach/work in an educational/remedial/therapeutic setting for learning disabled children. Special education centers and private institutions utilizing a multi-discipline team approach will be placement locations. Prerequisite: 0823.417 (or equivalent); 0823.517 (or equivalent) and 12 hours of psychology.

ELEMENTARY EDUCATION COURSES (0802)

Upper Division—Undergraduate and Graduate

0802.427 READING AND OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL—ADVANCED (3)

0802.429 METHODS AND PRINCIPLES OF READING INSTRUCTION—ADVANCED (3)

0802.431 DIAGNOSIS AND PRESCRIPTION FOR LEARNING DIFFICULTIES (3)

0802.433 EDUCATING THE GIFTED (3)

0802.441 CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3)

0802.451 IMPLEMENTATION OF CAREER EDUCATION IN THE ELEMENTARY SCHOOL (3)

0802.457 ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (3)

- 0802.458 PRACTICUM: ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (1-4)
 0802.470-479 SPECIAL TOPICS IN ELEMENTARY EDUCATION (1-3)
 0802.494 TRAVEL AND STUDY: ELEMENTARY EDUCATION (1-6)
 0802.495 INDEPENDENT STUDY IN EDUCATION: ELEMENTARY (1-4)
 0802.496 DIRECTED READING: ELEMENTARY EDUCATION (1-4)

Non-Departmental Listings

- 1001.471 ADVANCED ART EDUCATION (3) (See Art Dept. Listings)
 0401.303 LIFE SCIENCE IN THE ELEMENTARY SCHOOL (3)
 (See Biology Dept. Listings)
 1701.427 READINGS IN MATHEMATICS EDUCATION FOR THE
 ELEMENTARY SCHOOL TEACHER (1-3) (See Math. Dept. Listings)
 1902.303 EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION (3)
 (See Physics Dept. Listings)
 0834.376 TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3)
 (See Physics Dept. Listings)
 0834.401 SEQUENTIAL SCIENCE MODULES FOR THE ELEMENTARY
 SCHOOL TEACHER (1-3) (See Physics Dept. Listing)
 0834.488 AEROSPACE EDUCATION WORKSHOP (3)
 (See Physics Dept. Listing)

Graduate Division

0834.585 SEMINAR IN ELEMENTARY SCHOOL SCIENCE (3) Seminar approach to current practices and trends in organizing, teaching and improving programs in elementary school science. Each student conducts a limited research on some aspect of science teaching. Prerequisite: Elementary Teaching Experience.

0802.531 DIAGNOSIS & PRESCRIPTION FOR LEARNING DIFFICULTIES—ADVANCED (3) Topics include the diagnostic teaching cycle, team learning styles, and effects of mainstreaming. Teaching strategies to improve auditory, visual, and verbal skills, cognitive skills related to arithmetic and reading comprehension, and classroom behavior will be explored. Students must tutor one child as a requirement of the course. Prerequisite: 0801.425 or 0802.431 or consent of instructor.

0802.585 SEMINAR IN ELEMENTARY SCHOOL SOCIAL STUDIES (3) Trends, content, issues, and materials involved in the teaching of social studies. Each student will be expected to explore in depth one aspect of the subject and present his findings to the group.

0802.616 THE ADMINISTRATION OF THE ELEMENTARY SCHOOL (3) Analysis of principles of elementary school administration, the administrator's roles and responsibilities, human relations and personnel management, public relations, management of the school unit and curriculum. Prerequisites: Three years teaching experience, teacher certification and nine hours of graduate credit.

0802.647 THE TEACHING PROCESS: ELEMENTARY EDUCATION (3) Study of recent theories, methods and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for elementary children. Prerequisites: Teaching experience and 2001.511.

0802.648 INDIVIDUALIZING LEARNING IN THE ELEMENTARY SCHOOL (3) Theory of individualizing learning and restructuring of organizational patterns, with emphasis on behavioral objectives, learning centers, listening stations, task

folders, and media centers. A project is required. Prerequisites: Certification and Teaching Experience, or consent of instructor.

0802.665 THEORETICAL AND PRACTICAL BASES OF CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3) History of curriculum development in the elementary school; basic considerations affecting curriculum development; patterns of organization; objectives; practices and evaluation; problems in curriculum development. Prerequisite: Consent of program coordinator.

0802.675 SEMINAR IN ELEMENTARY EDUCATION (3) Scientific investigation of selected aspects of education with emphasis on classroom application. A paper involving description and evaluation of the investigation will be required. Prerequisite: 30 hours of graduate work including 0801.691.

0802.681 SEMINAR IN ELEMENTARY SUPERVISION (3) Role of the supervisor; supervisory practices and techniques. Students may concentrate in areas related to their professional interests. Prerequisite: Nine hours of graduate work.

0802.699 MASTER'S THESIS IN ELEMENTARY EDUCATION (3).

SECONDARY EDUCATION COURSES (0803)

Upper Division—Undergraduate and Graduate

0803.358 TEACHING COMPOSITION IN THE SECONDARY SCHOOL (3)

0803.359 CONTEMPORARY MATERIALS FOR TEACHING
ENGLISH IN SECONDARY SCHOOLS (3)

0803.360 TEACHING READING IN THE SECONDARY SCHOOL (3)

0803.421 THE JUNIOR HIGH SCHOOL (3)

0803.423 THE MIDDLE SCHOOL (3)

0803.425 TEACHING IN THE MIDDLE SCHOOL (3)

0803.451 SLOW LEARNER IN THE SECONDARY SCHOOL (3)

0803.457 METHODS OF TEACHING ENGLISH AS A
SECOND LANGUAGE (3)

0803.461 TEACHING READING IN THE SECONDARY CONTENT AREAS (3)

0803.463 DEVELOPMENTAL READING FOR THE
EARLY ADOLESCENT (3)

0803.470-479 SPECIAL TOPICS IN SECONDARY EDUCATION (1-3)

0803.494 TRAVEL AND STUDY IN SECONDARY EDUCATION (1-6)

0803.495 INDEPENDENT STUDY IN EDUCATION: SECONDARY (1-4)

0803.496 DIRECTED READINGS IN SECONDARY EDUCATION (1-4)

Non-Departmental Listings

1701.429 READINGS IN MATHEMATICS EDUCATION FOR THE
SECONDARY SCHOOL TEACHER (see Math Dept. Listings)

0834.380 TEACHING SCIENCE IN THE SECONDARY SCHOOL (3)

Graduate Division

0803.511 DIAGNOSIS AND PRESCRIPTION OF LEARNING DISABILITIES OF SECONDARY SCHOOL STUDENTS (3) Nature and causes of learning disabilities of secondary and middle school pupils; psychological and pedagogical principles underlying remediation techniques of diagnosis and prescription for learning-disabled pupils. Prerequisites: Teaching Reading in the Secondary School or equivalent; teaching experience (It is strongly recommended that students enrolling for this course be teaching, since emphasis will be on a practicum approach working with secondary pupils.)

0803.641 CURRICULUM DEVELOPMENT IN THE SECONDARY SCHOOL

(3) Principles and philosophies of curriculum development, objectives, practices and evaluation trends; the teacher's role. Prerequisite: Consent of instructor.

0803.643 THE ADMINISTRATION OF THE SECONDARY SCHOOL (3)

Analysis of principles of school administration, the administrator's roles and responsibilities, human relations and personnel management, public relations, management of the school unit and curriculum. Prerequisite: Three years teaching experience, teacher certification and nine hours of graduate credit.

0803.647 THE TEACHING PROCESS: SECONDARY EDUCATION (3)

Study of recent theories, methods, and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for Secondary students. Prerequisites: Teaching experience, either 2001.511 or 0801.501, and consent of Secondary Education Graduate Coordinator.

0803.679 SEMINAR IN SECONDARY SCHOOL SOCIAL STUDIES (3)

A seminar approach to current research, trends, practices, issues, content, materials, and problems in the teaching of contemporary secondary school social studies. Individual reading and research will be pursued on selected topics culminating in a seminar paper. Prerequisite: Consent of instructor, or prior teaching experience in social studies.

0803.681 SEMINAR IN SECONDARY EDUCATION (3)

Scholarly investigation of selected aspects of secondary education with emphasis on classroom application. A paper involving description and evaluation of the investigation will be required. Prerequisite: Twenty-four hours of graduate work including 0801.691.

0803.683 SEMINAR IN SECONDARY SUPERVISION (3)

Role of the supervisor, supervisory practices and techniques. Students may concentrate in areas related to their professional interests. Prerequisite: Nine hours of graduate work in the field of education.

0803.699 MASTER'S THESIS IN SECONDARY EDUCATION (3)

ADULT EDUCATION COURSES (0807)

Upper Division—Undergraduate and Graduate

0807.485 ADULT EDUCATION (3)

0807.487 TEACHING THE ADULT LEARNER (3)

0807.489 PRINCIPLES OF READING INSTRUCTION FOR ADULTS (3)

SPECIAL CERTIFICATION PROGRAMS

SAFETY AND DRIVER EDUCATION COURSES (0836)

Safety and Driver Education Courses carry graduate credit but may not be applied toward a Master's degree.

Upper Division—Undergraduate and Graduate

- 0836.430 PRINCIPLES OF ACCIDENT PREVENTION (3)
- 0836.431 HIGHWAY TRANSPORTATION SYSTEM AND DRIVER TASK ANALYSIS (3)
- 0836.433 MULTIPLE CAR FACILITIES AND ON-STREET INSTRUCTION IN DRIVER EDUCATION (3)
- 0836.434 FIXED BASE SIMULATION AND ON-STREET INSTRUCTION IN DRIVER EDUCATION (3)
- 0836.439 BASIC PUPIL TRANSPORTATION (3)
- 0836.440 ADVANCED PUPIL TRANSPORTATION (3)
- 0836.441 ADMINISTRATION AND SUPERVISION OF DRIVER EDUCATION (3)
- 0836.443 PROBLEMS IN SAFETY AND DRIVER EDUCATION (3)
- 0836.444 FIELD STUDIES IN SAFETY AND DRIVER EDUCATION (1-4)
- 0836.445 CURRICULUM DEVELOPMENT IN DRIVER EDUCATION (3)

SPECIAL EDUCATION COURSES (0808)

Upper Division—Undergraduate and Graduate

- 0808.441 SPECIAL NEEDS OF THE HANDICAPPED CHILD (3)
- 0808.481 METHODS AND MATERIALS FOR TEACHING THE VISUALLY IMPAIRED (3)
- 0808.483 BRAILLE READING AND WRITING (3)

0808.541 SPECIALIZED TEACHING TECHNIQUES FOR THE HANDICAPPED (3) This course is designed to help teachers develop basic teaching skills and instructional strategies appropriate for mildly and moderately handicapped children. The emphasis is on precision teaching techniques and special materials appropriate for children with special handicaps; a multi-media instructional approach is utilized. Prerequisite: 0808.441 and 12 hours psychology.

0808.641 INTERNSHIP IN HANDICAPPED CHILDREN (3-6) This course is the third in a three semester sequence in understanding working with handicapped children. It is designed to give teachers an opportunity to teach/work in an educational/remedial/therapeutic setting with young children who have sensory impairments, severe emotional disturbance and/or chronic medical conditions. Both public and private educational facilities or institutions will be placement locations. Prerequisite: Graduate standing: 0808.441 (or equivalent); 0808.541 or equivalent; and 12 hours psychology.

ADDITIONAL EDUCATION COURSES (0801)

Upper Division—Undergraduate and Graduate

- 0801.401 FOUNDATIONS OF EDUCATION (2-3)
- 0801.402 HISTORY OF EDUCATION (3)
- 0801.403 COMPARATIVE EDUCATION (3)
- 0801.405 PHILOSOPHY OF EDUCATION (3)
- 0801.406 RECENT TRENDS IN TEACHING (3)

0801.407 CONTEMPORARY ISSUES IN EDUCATION (3)
 0801.409 FIELD STUDIES OF THE CHILD AND HIS COMMUNITY (2)
 0801.411 OPEN EDUCATION: PHILOSOPHY AND PRACTICE (3)
 0801.412 OPEN EDUCATION: INTERPERSONAL RELATIONS (3)
 0801.414 EDUCATIONAL TESTS AND MEASUREMENTS (3)
 0801.415 EDUCATIONAL STATISTICS (3)
 0801.417 CHILDREN'S LITERATURE (3)
 0801.418 YOUNG ADULT LITERATURE (3)
 0801.425 CORRECTIVE READING (2-6)
 0801.431 THE SCHOOL CURRICULUM (3)
 0801.433 THE NON-GRADED CURRICULUM (3)
 0801.445 HUMAN RELATIONS AND THE INDIVIDUAL (3)
 0801.446 HUMAN RELATIONS AND THE COMMUNITY (3)
 0801.449 CITIZENSHIP EDUCATION IN THE SCHOOL (3)
 0801.451 GUIDANCE IN THE PUBLIC SCHOOL (2-3)
 0801.453 SUPERVISORY PRACTICES IN TEACHER EDUCATION (3)
 0801.455 INTRODUCTION TO CAREER DEVELOPMENT EDUCATION:
 THEORY AND PRACTICE (3)
 0801.461 LANGUAGE AND THE URBAN CHILD (3)
 0801.463 GENDER IDENTITY IN EDUCATION (2-3)
 0801.467 TEAM TEACHING WORKSHOP (3)
 0801.470-479 SPECIAL TOPICS IN EDUCATION (1-3)
 0801.494 TRAVEL AND STUDY, EDUCATION:
 (PROJECT TO BE NAMED) (1-6)
 0801.495 INDEPENDENT STUDY IN EDUCATION (1-4)
 0801.496 DIRECTED READINGS IN EDUCATION (1-4)

Graduate Division

0801.501 EDUCATIONAL IDEAS IN HISTORICAL PERSPECTIVE (3)
 Current trends and issues in education as reflecting and influencing the social, economic, and political forces in our cultural heritage. Prerequisite: 0801.401 or 0801.402 or 0801.405.

0801.507 HOME, SCHOOL, COMMUNITY (3) The interaction between home and school and community in educational programs: survey and evaluation of techniques for working with parents; study of various agencies and contributing to the education and well-being of children and youth at home and at school. Prerequisite: A course in Sociology and approval of Department of Education.

0801.511 SUPERVISION OF STUDENT TEACHING (3) An analysis of the roles of the cooperating teacher, college supervisor, and student teacher; current practices, issues, problems, trends and evaluation in laboratory experiences, current research. Prerequisite: Teaching experience.

0801.517 SCHOOL LAW (3) A study of the legal framework within which the public and non-public schools function. The course will give attention to the legal relationships among federal, state, and local governments; the legal status of school districts, boards of education, and school administrators; the legal status of non-public schools; and the law regarding all facets of the school program, staff and pupils. Prerequisite: 0801.501 Educational ideas in Historical Perspective.

0801.549 AMERICAN POLITICS AND EDUCATION (3) The American political structure and its relation to policy making and administration of public education. Topics include: educational opportunity, community responsibility and control, accountability, role of the courts, church-state relations, academic

freedom. Prerequisite: 0801.401 Foundations of Education, and 2207.103, Introduction to American National Government, or equivalent.

0801.550 ANALYSIS AND MODIFICATION OF TEACHING BEHAVIOR (3)

The analysis of teaching learning situations to aid the advanced teacher education students to develop, refine and prescribe skills and strategies and field work. Prerequisite: Teaching experiences, supervisory experience. 0801.471, Supervisory Practices in Teacher Education, and/or 0801.511, Supervision of Student Teaching.

0801.585 INTERDISCIPLINARY SEMINAR IN PHILOSOPHY AND EDUCATION (3) An interdisciplinary seminar with two aspects. (1) Current thought in the philosophy of a variety of academic fields (2) Their implications for the broad field of education. Concentration will be upon development in the present century.

0801.595 INDIVIDUALIZED STUDY (3-6) Individually planned programs which will permit the student to engage in research and/or field experiences relative to his professional growth. Prerequisite: Admission by application to the Graduate Program Coordinator only.

0801.601 REPRESENTATIVE AMERICAN EDUCATORS (3) A biographical approach to the development of American Education through selected groups of American educators whose contributions have significantly shaped its form and substance from the colonial period to the present. Prerequisite: 0801.401, Foundations of Education or equivalent.

0801.607 SEMINAR IN EDUCATIONAL CLASSICS I: ANCIENT PERIOD THROUGH THE RENAISSANCE (3) An indepth study of the classical works of selected authors. Concentration on liberalizing and humanistic influences. A seminar paper will be developed by each student. Prerequisite: 0801.401 Foundations of Education or 0801.301 History of Education, or 0801.501 Educational Ideas in Historical Perspective.

0801.609 SEMINAR IN EDUCATIONAL CLASSICS II: RENAISSANCE TO THE PRESENT (3) An indepth study of the classical works of selected authors. Concentration on liberalizing and humanistic influences. Prerequisite: 0801.401 Foundations of Education or 0801.301 History of Education or 0801.501 Educational Ideas in Historical Perspective.

0801.621 READING DISABILITIES (3) The content of this course includes the following: causes of reading disabilities, observation and interview procedures, standard and informal tests, report writing, diagnosis and correction of reading difficulties. Prerequisite: One undergraduate course in the teaching of reading.

0801.623 METHODS AND MATERIALS IN TEACHING READING IN THE ELEMENTARY SCHOOL (3) A course in the foundations of reading instructions. Covers trends in methods, materials, and individualized reading designs essential to the organization and administration of a developmental reading program. Prerequisite: One undergraduate course in teaching of reading.

0801.625 CLINIC PRACTICUM IN READING (3) A clinical or laboratory experience. Students diagnose and treat reading disability cases under the supervision of the directors of the reading program. Prerequisite: 0801.621 and 0801.623.

0801.627 EVALUATION OF READING RESEARCH (3) The student will be exposed to the tools of research and experimentation. The emphasis will be on past and present research relevant to reading. Prerequisite: A course in Tests and Measurements of Statistics and consent of instructor.

0801.629 SEMINAR IN READING (3) An advanced course to familiarize the student with interdisciplinary aspects of the reading process. The highlight of the course will be the team teaching aspect. Consultants such as psychologists, pediatricians, optometrists, guidance teachers, etc., will play an important role in this course. Prerequisite: 0801.621 and 0801.623.

0801.631 DIAGNOSIS AND EVALUATION OF READING DISABILITIES (3) Emphasis on the practical uses of standardized and non-standardized instruments and procedures for evaluating reading disabilities. Prerequisites: 0801.621 and 0801.623.

0801.691 INTRODUCTION TO RESEARCH IN EDUCATION (3) Research as a method of solving problems. Contributions of research to education. Prerequisite: Undergraduate course in Tests and Measurements, or Elementary Statistics, or consent of instructor.

0801.699 MASTER OF EDUCATION THESIS (3) Carefully executed investigation and accurate recording of a specific problem selected with reference to the student's professional goals and resources. Historical, descriptive, experimental, or action research can provide a single or multiple framework within which the student may work. Includes an outline of the proposed thesis submitted for inspection and approval by the Graduate Studies Committee, an application of techniques derived from the research Adviser.

0831.595 RESEARCH IN ART AND ART EDUCATION (3)
(see Art Dept. Listings)

0831.697 SEMINAR IN ART EDUCATION (3) (See Art Dept. Listings)

0832.502 CURRENT TRENDS IN MUSIC AND MUSIC EDUCATION
(See Music Dept. Listings)

0832.595 RESEARCH METHODS IN MUSIC AND MUSIC EDUCATION
(See Music Dept. Listings)

1701.525 SEMINAR IN MATHEMATICS EDUCATION FOR SECONDARY SCHOOL TEACHERS (See Math Dept. Listings)



English

Co-Chairperson—Donald H. Craver

Co-Chairperson—Dan L. Jones

ENGLISH COURSES (1501)

Upper Division—Undergraduate and Graduate

- 1501.302 THE ENGLISH RENAISSANCE (3)
- 1501.303 SEVENTEENTH CENTURY ENGLISH PROSE AND POETRY (3)
- 1501.309 AMERICAN DRAMA (3)
- 1501.312 WORLD DRAMA I (3)
- 1501.313 WORLD DRAMA II (3)
- 1501.319 ENGLISH MEDIEVAL AND RENAISSANCE DRAMA (3)
- 1501.320 ENGLISH DRAMA FROM THE RESTORATION TO SHAW (3)
- 1501.321 MODERN DRAMA (3)
- 1501.323 THE CONTINENTAL NOVEL (3)
- 1501.325 HISTORICAL LINGUISTICS (3)
- 1501.326 MYTH AND LITERATURE (3)
- 1501.327 STRUCTURAL LINGUISTICS (3)
- 1501.328 HISTORY AND LITERATURE OF THE OLD TESTAMENT (3)
- 1501.329 HISTORY OF AMERICAN ENGLISH (3)
- 1501.332 COMPARATIVE GRAMMAR (3)
- 1501.335 LITERATURE OF THE ENGLISH ROMANTIC PERIOD (3)
- 1501.337 VICTORIAN PROSE AND POETRY I (3)
- 1501.338 VICTORIAN PROSE AND POETRY II (3)
- 1501.340 MEDIEVAL LITERATURE (3)
- 1501.345 EIGHTEENTH CENTURY ENGLISH PROSE AND POETRY (3)
- 1501.347 FOLKLORE AND LITERATURE (3)
- 1501.401 THE LITERATURE OF BLACK AMERICA (3)
- 1501.405 LITERARY CRITICISM I (3)
- 1501.407 MODERN POETRY (3)
- 1501.408 MODERN FICTION TO WORLD WAR II (3)
- 1501.409 MODERN FICTION SINCE WORLD WAR II (3)
- 1501.410 CHAUCER (3)
- 1501.412 MILTON (3)
- 1501.415 SHAKESPEARE (COMEDIES) (3)
- 1501.416 SHAKESPEARE (TRAGEDIES) (3)
- 1501.419 THE TWENTIETH CENTURY BRITISH NOVEL (3)
- 1501.420 TWENTIETH CENTURY BRITISH POETRY (3)
- 1501.422 DEVELOPMENT OF THE ENGLISH NOVEL I (3)
- 1501.423 DEVELOPMENT OF THE ENGLISH NOVEL II (3)
- 1501.427 LITERATURE OF THE AMERICAN ROMANTIC PERIOD (3)
- 1501.428 LITERATURE OF THE AMERICAN REALISTIC PERIOD (3)
- 1501.430 HISTORY OF THE ENGLISH LANGUAGE (3)
- 1501.431 STRUCTURE OF THE ENGLISH LANGUAGE (3)
- 1501.435 AMERICAN SHORT STORY (3)
- 1501.437 BRITISH AND AMERICAN PROSE (3)
- 1501.445 NINETEENTH CENTURY AMERICAN NOVEL (3)
- 1501.446 TWENTIETH CENTURY AMERICAN NOVEL (3)
- 1501.447 AMERICAN POETRY THROUGH ROBERT FROST (3)
- 1501.448 TWENTIETH CENTURY AMERICAN POETRY (3)
- 1501.471 TOPICS IN WORLD LITERATURE (2 or 3)
- 1501.472 TOPICS IN ENGLISH LITERATURE (2 or 3)

- 1501.473 TOPICS IN AMERICAN LITERATURE (2 or 3)
- 1501.474 TOPICS IN WOMEN'S STUDIES (3)
- 1501.475 TOPICS IN MULTI-ETHNIC AMERICAN LITERATURE (3)
- 1501.485 SEMINAR IN ENGLISH STUDIES I (3)
- 1501.486 SEMINAR IN ENGLISH STUDIES II (3)
- 1501.491 DIRECTED READING IN ENGLISH (2-4)
- 1501.494 TRAVEL AND STUDY (3-6)

Graduate Division

1501.521 STUDIES IN ENGLISH LITERATURE (3) Thorough study of one major area of English Literature (author, period, movement, etc.) Areas covered will vary from semester to semester. Substantial research required. Prerequisite: Graduate standing and consent of instructor.

1501.523 STUDIES IN LITERARY CRITICISM (3) Thorough study of one major area of Literary Criticism (author, period, movement, etc.) Areas covered will vary from semester to semester. Substantial research required. Prerequisite: Graduate standing and consent of instructor.

1501.525 STUDIES IN AMERICAN LITERATURE (3) Thorough study of one major area of American Literature (author, period, movement, etc.) Areas covered will vary from semester to semester. Substantial research required. Prerequisite: Graduate standing and consent of instructor.

1501.527 STUDIES IN WORLD LITERATURE (3) Thorough study of one major area of World Literature (author, period, movement, etc.) Areas covered will vary from semester to semester. Substantial research required. Prerequisite: Graduate standing and consent of instructor.

1501.531 STUDIES IN LINGUISTICS (3) Topics in the technology and philosophy of language: descriptive grammar, psycholinguistics, sociolinguistics, etc. Topic to vary. May be repeated as topics change. Prerequisite: Graduate standing and consent of instructor.



General Studies

Upper Division—Undergraduate and Graduate

- 4901.331 WOMEN IN SOCIETY (3)
- 4901.332 WOMEN IN ART AND LITERATURE (3)
- 4901.341 PARENTING PROCESS (3)
- 4901.401 AFRO-AMERICAN PERSPECTIVES (3)
- 4901.421 INTERDISCIPLINARY WORKSHOP IN ASIAN STUDIES (3)
- 4901.491 DIRECTED READING IN WOMEN'S STUDIES (1-4)
- 4901.496 PRACTICUM IN WOMEN'S STUDIES (3)

Graduate Division

4901.501 INTRODUCTORY SEMINAR IN GENERAL STUDIES (3) For graduate students in the Master of Arts in General Studies degree program. A seminar course in which disciplines are examined from philosophical, methodological, utilitarian and other viewpoints. Each participant prepares for this purpose an analysis and description of his/her undergraduate major discipline or area of concentration.

4901.502 CULMINATING SEMINAR IN GENERAL STUDIES (3) For graduate students in the Master of Arts in General Studies degree program. A seminar course which seeks primarily to integrate effectively the knowledge and skills developed by the student through the program of study. Each student will undertake an individualized research project involving an analysis of the rationale for and content of the particular program theme. Prerequisite: Open only to students in the Master of Arts in General Studies degree program. Must be taken in last semester of degree work.



Geography and Environmental Planning

Chairperson: Norman R. Diffenderfer

Graduate Studies Coordinator: Geography Program: Wayne McKim

GEOGRAPHY COURSES (2206)

Upper Division—Undergraduate and Graduate

SYSTEMATIC COURSES

- 2206.319 SOILS AND VEGETATION (3)
- 2206.351 URBAN DESIGN-MAN-SPACE-ENVIRONMENT (3)
- 2206.361 ADVANCED ECONOMIC GEOGRAPHY (3)
- 2206.371 ADVANCED PHYSICAL GEOGRAPHY (4)
- 2206.373 CLIMATOLOGY (3)
- 2206.375 QUANTITATIVE METHODS IN GEOGRAPHY (3)
- 2206.377 DESCRIPTIVE METEOROLOGY (4)
- 2206.381 POLITICAL GEOGRAPHY (3)
- 2206.385 GEOGRAPHY OF POPULATION AND SETTLEMENT (3)
- 2206.391 URBAN GEOGRAPHY (3)
- 2206.401 GROWTH OF GEOGRAPHIC THOUGHT (3)
- 2206.403 PLANNING IMPLEMENTATION (3)
- 2206.405 COMPREHENSIVE PLANNING (3)

TECHNIQUE COURSES

- 2206.321 INTERPRETATION OF AERIAL PHOTOGRAPHS (3)
- 2206.323 CARTOGRAPHY AND GRAPHICS I (3)
- 2206.324 CARTOGRAPHY AND GRAPHICS II (3)
- 2206.327 MAP ANALYSIS AND INTERPRETATION (3)
- 2206.341 TECHNIQUES AND MATERIALS FOR
GEOGRAPHY TEACHERS (3)

REGIONAL COURSES

- 2206.419 EASTERN ANGLO-AMERICA (3)
- 2206.420 WESTERN ANGLO-AMERICA (3)
- 2206.423 GEOGRAPHY OF MARYLAND (3)
- 2206.431 GEOGRAPHY OF AFRICA (3)
- 2206.441 GEOGRAPHY OF AUSTRALIA AND OCEANIA (3)
- 2206.443 GEOGRAPHY OF EAST ASIA (3)
- 2206.445 GEOGRAPHY OF SOUTH AND SOUTHEAST ASIA (3)
- 2206.447 ECONOMIC AND POLITICAL GEOGRAPHY OF
THE MIDDLE EAST (3)
- 2206.451 GEOGRAPHY OF EUROPE (3)
- 2206.453 GEOGRAPHY OF THE USSR (3)
- 2206.461 GEOGRAPHY OF SOUTH AMERICA (3)
- 2206.463 GEOGRAPHY OF CENTRAL AMERICA AND THE CARIBBEAN (3)

SEMINARS AND SPECIAL COURSES

- 2206.479 FIELD RESEARCH IN PLANNING (1-3)
- 2206.481 SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3)
- 2206.483 SEMINAR: THE AMERICAS (3)
- 2206.485 SEMINAR: SOUTH ASIA (3)

- 2206.487 SEMINAR: GEOGRAPHY AND MAN IN THE TWENTIETH CENTURY (3)
 2206.489 SEMINAR: STUDIES IN ENVIRONMENTAL QUALITY (3)
 2206.493 FIELD GEOGRAPHY (2-6)
 2206.494 TRAVEL STUDY IN AUSTRALIA (3)
 2206.495 DIRECTED READING IN GEOGRAPHY (3)
 2206.496 INDEPENDENT STUDY IN GEOGRAPHY (1-6)

Graduate Division

2206.521 RESEARCH TECHNIQUES IN GEOGRAPHY (3) A course designed to investigate the primary sources of information in geography and to learn the nature of original investigation. Prerequisite: 6 hours of geography or consent of instructor.

2206.571 STUDIES IN PHYSICAL GEOGRAPHY (3) The study of selected geographical topics dealing with physical landscape phenomena, especially in regards to distribution, relationships, and significance to man. Topics will be announced. No more than six semester hours may be applied toward a degree. Prerequisite: 6 hours of geography or consent of instructor.

2206.581 SEMINAR IN POLITICAL GEOGRAPHY (2-6) Special subjects dealing with the geography of international politics, e.g., boundary problems, global strategy, space, sovereignty. Topics to be announced. No more than six semester hours may be applied toward a degree. Prerequisite: Six hours of geography or consent of instructor.

2206.583 SEMINAR: ENVIRONMENTAL PROBLEMS IN MARYLAND (3) Individual research on a selected environmental problem in Maryland; oral and written presentations. Prerequisite: Graduate status, and either geography major, previous work in Maryland, previous seminar or consent of instructor.

2206.591 URBAN GEOGRAPHY STUDIES (2-6) Selected topics dealing with the application of geography to planning, retail and industrial location, and trade analysis. Topics to be announced. No more than six semester hours may be applied toward a degree. Prerequisite: 6 hours of geography or consent of instructor.

2206.601 LAND USE STUDIES (2-6) Certain selected problems on urban, rural and rural-urban landscapes which consider and account for geographic differences in land utilization. Topics will be announced. No more than six semester hours may be applied toward a degree. Prerequisite: 6 hours of geography or consent of instructor.

2206.671 SEMINAR IN REGIONAL GEOGRAPHY (2-6) The description analysis and interpretation of natural and cultural phenomena in certain significant geographic regions. Seminar topics will be announced. No more than six semester hours may be applied toward a degree. Prerequisite: 6 hours in geography or consent of instructor.

2206.697 RESEARCH (2-6) Directed investigation of a pertinent and appropriate geographical problem or problems based upon field and library study, which will contribute to geographical knowledge. Designed for the Master's thesis credit or individual research.

2206.699 THESIS (3-6)

Health Science

Chairperson: Clint Bruess

Graduate Studies Coordinator: Phyllis G. Ensor

HEALTH COURSES (1201)

Upper Division—Undergraduate and Graduate

1201.401 SEX EDUCATION AND FAMILY LIFE (3)

1201.402 HEALTH SEMINAR (3)

1201.403 HEALTH EDUCATION CURRICULUM (3)

1201.405 DRUGS IN OUR CULTURE (3)

1201.411 HEALTH AND LATER MATURITY—THE AGING PROCESS (3)

1201.451 ECOLOGICAL ASPECTS OF HEALTH (3)

1201.485 HEALTH WORKSHOP (3 or 6)

1201.491 HEALTH DIRECTED READING (1-3)

1201.495 INDEPENDENT STUDY (3)

Graduate Division

1201.501 PROBLEMS IN SCHOOL HEALTH (3) Designed to assist the student in developing an understanding of the current problems in school health programs. The structure, organization, scope, content and practices in the field as revealed through literature and research is studied. Prerequisite: Consent of department.

1201.511 CURRENT LITERATURE IN HEALTH (3) Critical analysis of current and past research findings concerning health knowledge attitudes, behavior, and educational techniques. A comprehensive review of health-related periodicals is included. Prerequisite: Consent of department.

1201.513 ANALYSIS OF PHYSIOLOGICAL CONCEPTS (3) Analysis of research and laboratory applications of the physiological factors that affect human efficiency before, during and after exercise. Factors to be investigated include: Metabolism, circulation, respiration, muscular physiology, endocrine system, ergogenic aids, environmental factors, etc. Prerequisite: Consent of department.

1201.515 COMMUNITY HEALTH: QUALITATIVE AND QUANTITATIVE ELEMENTS (3) An exploration of vital and health statistics, population dynamics and family planning, epidemiology, public health law and legislative action, health behavior and its determinants, community organization and program staff development, as they relate to community health education both qualitatively and quantitatively. Prerequisite: Consent of department.

1201.525 RESEARCH METHODS IN HEALTH (3) An introduction to research and statistical designs as directly related to health science and allied health disciplines. Evaluation and redesign of current health research designs will be emphasized. Prerequisite: Basic statistics or tests and measurements and graduate standing or consent of instructor.

1201.570-579 SPECIAL TOPICS (3) The course is designed to focus on several currently important health topics. Possible subjects include: Fitness in a hypokinetic world, aging, death, alcohol and its abuse, consumerism, disease, weight control, value clarification, developing a personal philosophy of health. Prerequisite: Six hours in health or permission of department.

1201.591 DIRECTED READINGS IN HEALTH (3) Individual study of a significant problem in health through consultation with appropriate faculty

members. Emphasis is on increased knowledge of health. Prerequisite: Consent of department.

1201.699 MASTER'S THESIS IN HEALTH (3) The purpose of this course is to provide credit hours for the completion of a thesis. This must be an original investigation using an acceptable research method and design conducted under the direction of one or more faculty members. The credit will be granted only *after* the thesis has been accepted by the student's Thesis Committee. Prerequisites: 1201.501 or Principles of Community Health Education, 1201.525, and Graduate Seminar in Health.



History

Chairperson: Mary Catherine Kahl

HISTORY COURSES (2205)

Upper Division—Undergraduate and Graduate

- 2205.301 ANCIENT NEAR EASTERN CIVILIZATIONS (3)
- 2205.302 CLASSICAL CIVILIZATIONS (3)
- 2205.303 HELLENISTIC CIVILIZATION (3)
- 2205.311 TRADITIONAL INDIA: ITS HISTORICAL DEVELOPMENT (3)
- 2205.312 HISTORY OF MODERN INDIA (3)
- 2205.313 HISTORY OF MODERN SOUTHEAST ASIA (3)
- 2205.316 HISTORY OF MODERN CHINA (3)
- 2205.317 HISTORY OF MODERN JAPAN (3)
- 2205.321 HISTORY OF MEXICO: PRE-COLUMBIAN COLONIAL (3)
- 2205.322 HISTORY OF MEXICO: NATIONAL PERIOD (3)
- 2205.325 HISTORY OF INDIANS IN LATIN AMERICA:
MAYA, AZTEC, AND INCA (3)
- 2205.334 HISTORY OF WEST AFRICA 1500-1885 (3)
- 2205.335 HISTORY OF RECENT AFRICA (3)
- 2205.345 THE AMERICAN COLONIES: 1492-1763 (3)
- 2205.346 THE AMERICAN REVOLUTIONARY PERIOD: 1763-1789 (3)
- 2205.347 THE EARLY NATIONAL PERIOD (3)
- 2205.348 THE JACKSONIAN ERA (3)
- 2205.349 THE CIVIL WAR (3)
- 2205.350 THE ERA OF RECONSTRUCTION (3)
- 2205.351 THE GILDED AGE (3)
- 2205.352 THE POPULIST-PROGRESSIVE ERA (3)
- 2205.359 RECENT AMERICAN HISTORY: 1920-1945 (3)
- 2205.360 RECENT AMERICAN HISTORY: 1945-1975 (3)
- 2205.361 AMERICAN INTELLECTUAL HISTORY TO 1859 (3)
- 2205.362 AMERICAN INTELLECTUAL HISTORY SINCE 1859 (3)
- 2205.363 SOCIAL HISTORY OF THE U.S. TO 1865 (3)
- 2205.364 SOCIAL HISTORY OF THE U.S. SINCE 1865 (3)
- 2205.365 THE AGRICULTURAL ERA OF AMERICA (3)
- 2205.366 A HISTORY OF AMERICAN BUSINESS (3)
- 2205.367 CONSTITUTIONAL HISTORY OF THE
UNITED STATES TO 1868 (3)
- 2205.368 CONSTITUTIONAL HISTORY OF THE
UNITED STATES SINCE 1868 (3)
- 2205.369 DIPLOMATIC HISTORY OF THE UNITED STATES TO 1900 (3)
- 2205.370 DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1900 (3)
- 2205.371 RELIGION IN EARLY AMERICA (3)
- 2205.372 RELIGION IN MODERN AMERICA (3)
- 2205.373 THE COLONIAL AND TRANS-APPALACHIAN FRONTIER (3)
- 2205.374 THE FAR WESTERN FRONTIER (3)
- 2205.375 THE CITY IN AMERICAN HISTORY (3)
- 2205.377 THE IMMIGRANT IN AMERICAN HISTORY (3)
- 2205.379 INDIAN-WHITE RELATIONS IN AMERICAN HISTORY (3)
- 2205.381 HISTORY OF AFRO-AMERICANS (3)
- 2205.383 AMERICAN RADICALISM SINCE 1890 (3)
- 2205.391 HISTORY OF CANADA (3)

- 2205.397 HISTORY OF MARYLAND FROM COLONIAL TIMES TO THE PRESENT (3)
- 2205.400 SEMINAR IN AMERICAN HISTORY (3)
- 2205.401 THE EARLY MIDDLE AGES, 300-1050 (3)
- 2205.402 THE HIGH MIDDLE AGES, 1050-1350 (3)
- 2205.403 THE RENAISSANCE ERA: 1300-1530 (3)
- 2205.404 THE REFORMATION: 1500-1648 (3)
- 2205.405 EUROPE: 1648-1815 (3)
- 2205.406 EUROPE: 1815-1914 (3)
- 2205.407 EUROPE: 1914-1939 (3)
- 2205.408 EUROPE SINCE 1939 (3)
- 2205.410 EUROPEAN SOCIAL HISTORY SINCE THE 18th CENTURY (3)
- 2205.411 HISTORY OF EUROPEAN WOMEN (3)
- 2205.413 EUROPEAN MILITARY HISTORY SINCE 1815 (3)
- 2205.415 DIPLOMATIC HISTORY OF EUROPE: 1815-1939
- 2205.417 ECONOMIC HISTORY OF EUROPE TO THE MID-EIGHTEENTH CENTURY (3)
- 2205.418 ECONOMIC HISTORY OF EUROPE SINCE THE MID-EIGHTEENTH CENTURY (3)
- 2205.419 EUROPEAN INTELLECTUAL HISTORY TO 1789 (3)
- 2205.420 EUROPEAN IDEAS: FRENCH REVOLUTION TO THE PRESENT (3)
- 2205.421 BRITAIN IN THE TWENTIETH CENTURY (3)
- 2205.431 FRANCE: 1763-1871 (3)
- 2205.441 GERMANY: 1871-1945 (3)
- 2205.451 RUSSIA: 1696-1894 (3)
- 2205.452 RUSSIA SOVIET UNION: 1894-1953 (3)
- 2205.453 HISTORY OF SOVIET RUSSIA SINCE STALIN, 1953 TO PRESENT (3)
- 2205.461 SEMINAR IN EUROPEAN HISTORY (3)
- 2205.477 EUROPE IN THE THIRD WORLD: COLONIALISM TO CRISIS (3)
- 2205.479 A HISTORY OF DIPLOMACY (3)
- 2205.481 HISTORY OF MANAGEMENT (3)
- 2205.483 DIRECTED INDIVIDUAL RESEARCH (3)
- 2205.489 ORAL HISTORY (3)
- 2205.490 INTERPRETIVE PROBLEMS IN HISTORY (3)
- 2205.491 BIOGRAPHICAL STUDIES IN HISTORY (3)
- 2205.492 HISTORICAL THEMES (3)
- 2205.494 TRAVEL & STUDY (3-6)
- 2205.495 SEMINAR IN COMPARATIVE STUDIES (3)
- 2205.496 COLLOQUIUM (3)
- 2205.497 DIRECTED READING (3)
- 2205.498 PHILOSOPHY OF HISTORY (3)

Graduate Division

2205.599 SEMINAR IN UNITED STATES HISTORY TO 1865 (3) Research dealing with a phase of United States History to 1865 to be selected by the instructor. Prerequisite: Eighteen hours of history and consent of the instructor and the Department Chairperson.

2205.600 SEMINAR IN UNITED STATES HISTORY SINCE 1865 (3) Research dealing with a phase of United States history since 1865 to be selected by the instructor. Graduate standing, eighteen hours of history and consent of the instructor and the department chairperson.

2205.661 SEMINAR IN 19th CENTURY EUROPEAN HISTORY (3) Research dealing with a phase of 19th century European history to be selected by the instructor. Graduate standing and eighteen hours of history and consent of the instructor and the Department Chairperson.

2205.662 SEMINAR IN 20th CENTURY EUROPEAN HISTORY (3) Research dealing with a phase of twentieth century European history to be selected by the instructor. Prerequisite: Graduate standing. Eighteen hours of history and consent of the instructor and Department Chairperson.

2205.683 DIRECTED INDIVIDUAL RESEARCH (2-4) Research and reading dealing with a historical topic to be selected by the instructor and student, considerable attention to methodology. Prerequisite: Eighteen hours of history and consent of the instructor and Department Chairperson.

2205.697 DIRECTED READING IN HISTORY (2-4) Independent reading in areas of history selected by the instructor and the student. Prerequisite: Graduate standing. Eighteen hours of history and consent of the instructor and Department Chairperson.



Instructional Technology

Chairperson: Gary W. Rosecrans

Graduate Studies Coordinator: Gary W. Rosecrans

Instructional Technology Program

INSTRUCTIONAL TECHNOLOGY COURSES (0601)

Upper Division—Undergraduate and Graduate

- 0601.301 UTILIZATION OF INSTRUCTIONAL MEDIA (3)
- 0601.401 HISTORY OF INSTRUCTIONAL TECHNOLOGY (3)
- 0601.423 INSTRUCTIONAL MOTION PICTURE FILMMAKING I (3)
- 0601.431 SURVEY OF LEARNING BY TELEVISION (3)
- 0601.435 INSTRUCTIONAL TELEVISION UTILIZATION (3)
- 0601.441 COMPUTER TECHNOLOGY AND UTILIZATION (3)
- 0601.453 INTRODUCTION TO INSTRUCTIONAL PHOTOGRAPHY (3)
- 0601.455 GRAPHICS COMMUNICATIONS (3)
- 0601.471 REFERENCE AND INFORMATION SOURCES (3)
- 0601.473 CATALOGING AND CLASSIFICATION OF MEDIA (3)
- 0601.485 MEDIA DESIGN (3)
- 0601.487 THEORY AND TECHNIQUES OF PROGRAMMED INSTRUCTION (3)

Graduate Division

0601.501 ORGANIZATION AND ADMINISTRATION OF MEDIA CENTER PROGRAMS (3) Organizational patterns, management procedures, and supervisory methods and techniques for instructional materials centers are considered. Major topics include: facilities, finance, selection, procurement, security and basic maintenance of equipment and materials; center operation, extension and in-service programs, assessments of systems and programs, and public relations. Prerequisite: Six hours of ISTC courses at the 400 level or above.

0601.515 MEDIA SELECTION (3) The course will include: (1) the criteria used to select media (2) classroom management techniques when using media, and (3) various evaluation instruments. Students will be required to provide a written rationale for (1) choosing specific materials (2) providing a particular instructional setting for the learner, and (3) constructing a particular evaluation instrument. Prerequisite: 0601.485.

0601.533 INSTRUCTIONAL TELEVISION (3) The ITV movement; ITV systems and terminology; elements of production; classroom utilization of the ITV product; developing the ITV workshop; careers in ITV; and aspects of administration, philosophy, evaluation, and research in ITV. Students will be required to demonstrate competencies in critiquing ITV programs, and in the writing and production of scripts utilizing appropriate television facilities. Prerequisite: 0601.485.

0601.534 INDEPENDENT STUDY: INSTRUCTIONAL MOTION PICTURE FILMMAKING II (3) This course, building on previously acquired fundamentals, culminates in the production of an instructional motion picture for classroom use. To this end, the student will explore and develop a working knowledge of scriptwriting techniques, directional techniques, including areas such as: background, audio, lighting, and optics applications. Special effects techniques, such as animation, slow and stop motion will be developed in the course. Independent study under close supervision of instructor. Lab Fee \$15.00. Prerequisite: 0601.423.

0601.563 APPLIED PSYCHOLOGY OF LEARNING (3) Behaviorist and gestalt learning theories are examined. Particular emphasis is placed on the concepts of Gagne and Piaget. A research paper is required of students. 0601.301 and one other instructional technology course.

0601.567 INSTRUCTIONAL DEVELOPMENT (3) Includes an overview of the systems approach and its use in problem solving. The application of the systems approach with instructional technology to the problems of instruction is studied in detail. Students are required to demonstrate competencies in designing mediated instructional sequences and in evaluating media with behavioral descriptors. Prerequisite: 0601.485 and 0601.563.

0601.573 INSTRUCTIONAL FACILITIES DESIGN (3) A systems approach to the integration of media and facilities into a single unit to fulfill instructional/training goals. Includes a schedule of time and sequential phasing to insure orderly relationships and interaction of human, technical, and environmental resources. Included are the application of equipment and facilities designed to mediate self-instruction as a part of individually prescribed instruction as well as equipment and facilities designed for large group or multimedia instruction. Student projects include facility designs for academic/training utilization. Prerequisite: Six hours of instructional technology courses at the 400 level or above.

0601.585 SEMINAR IN INSTRUCTIONAL TECHNOLOGY (3) The student is required to do investigative work in the literature of instructional technology and to write four extensive papers in class which analyze, synthesize, and evaluate this literature. Students who do not receive at least a "B" in this course must take an advancement examination. Prerequisite: 0601.301.

0601.689 INTERNSHIP IN INSTRUCTIONAL TECHNOLOGY (6) The student will work in a school media center under professional supervision. This course satisfies practicum requirements for certification as a media specialist or media generalist. \$106.00 fee. Prerequisites: 15 hours of graduate credit in instructional technology and departmental approval.

0601.695 RESEARCH IN INSTRUCTIONAL TECHNOLOGY (3) Elements of research writing are investigated and basic concepts of inferential statistics are studied. Additionally, relevant research in the field of instructional technology is examined. Students are required to demonstrate competencies in research writing. Prerequisite: Six hours of instructional technology courses at the 400 level or above.

0601.697 SUPERVISED FIELD EXPERIENCES IN INSTRUCTIONAL TECHNOLOGY (3) The student must complete a project of a practical nature under the direction of a faculty advisor. A formal paper is required with departmental approval. The course may be taken twice for credit. Prerequisites: 9 hours of graduate credit in instructional technology including 0601.695, and departmental approval.

0601.699 MASTER'S THESIS IN INSTRUCTIONAL TECHNOLOGY (3-6) An original investigation, using an acceptable research method and design of a research problem, to be conducted under the direction of one or more faculty members. Credit granted only **after** thesis has been accepted by a student's thesis committee. Prerequisite: Fifteen hours of instructional technology courses at the 400 level or above.

Mathematics

Chairperson: Martin Horak

Upper Division—Undergraduate and Graduate

- 1701.331 PROBABILITY (3)
- 1701.332 MATHEMATICAL STATISTICS (3)
- 1701.357 COLLEGE GEOMETRY (3)
- 1701.361 ALGEBRAIC STRUCTURES (4)
- 1701.365 LINEAR ALGEBRA (3)
- 1701.367 THEORY OF NUMBERS (3)
- 1701.373 CALCULUS III (4)
- 1701.377 MATHEMATICAL MODELS (3)
- 1701.421 APPLICATIONS OF MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (3)
- 1701.424 TEACHING THE METRIC SYSTEM (1)
- 1701.425 METHODS AND MATERIALS FOR MATH LAB INSTRUCTION (3)
- 1701.427 READINGS IN MATHEMATICS EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER (1-3)
- 1701.429 READINGS IN MATHEMATICS EDUCATION FOR THE SECONDARY SCHOOL TEACHER (1-3)
- 1701.435 NUMERICAL ANALYSIS I (3)
- 1701.436 NUMERICAL ANALYSIS II (3)
- 1701.451 MATH RESEARCH IN GRAPH THEORY (3)
- 1701.457 DIFFERENTIAL GEOMETRY I (3)
- 1701.461 ADVANCED TOPICS IN ALGEBRA (3)
- 1701.471 DIFFERENTIAL EQUATIONS (3)
- 1701.473 ADVANCED CALCULUS I (3)
- 1701.474 ADVANCED CALCULUS II (3)
- 1701.475 COMPLEX ANALYSIS (3)
- 1701.477 TOPOLOGY (3)
- 1701.491 READINGS IN MATHEMATICS (1-3)

COMPUTER SCIENCE COURSES (0701)

Upper Division—Undergraduate and Graduate

- 1701.313 PRACTICUM IN PERIPHERALS (3)
- 0701.315 SURVEY OF PROGRAMMING LANGUAGES (3)
- 0701.317 DISCRETE STRUCTURES (3)
- 0701.335 ADVANCED BUSINESS PROGRAMMING (3)
- 0701.337 INTRODUCTION TO COMPUTER SCIENCE I (3)
- 0701.338 INTRODUCTION TO COMPUTER SCIENCE II (3)
- 0701.339 PROGRAMMING SYSTEMS (3)
- 0701.411 SYSTEMS AND DESIGN (3)
- 0701.431 SELECTED TOPICS IN COMPUTER SCIENCE (1-3)
- 0701.437 FILE AND DATA STRUCTURES (3)

Graduate Division

1701.501 HISTORY OF MATHEMATICS (3) An historical survey of the classical roots of contemporary mathematics with selected topics chosen from number theory, geometry, analysis and algebra.

1701.521 SEMINAR IN TEACHING ARITHMETIC (3) Analysis of new topics, techniques, and materials in arithmetic instruction. Students may not receive credit for both 1701.521 and 1701.422 except with special permission from the

graduate program coordinator and the Chairperson of the Mathematics Department. Prerequisite: 1701.321 or 1701.323.

1701.525 SEMINAR IN MATHEMATICS EDUCATION FOR SECONDARY SCHOOL TEACHERS (3) An investigation of recent curricula, methods, and materials in secondary school mathematics instructors. Prerequisite: 1701.423 or equivalent.

1701.530 STATISTICS — AN INTEGRATED APPROACH (4) Theory and practices of basic statistical analysis and inference with emphasis on analyzing and solving real problems using statistics. Descriptive statistics, introduction to probability, sampling distributions, estimation, hypotheses testing, regression, correlation, non-parametric techniques and analysis of variance, computer programming incorporated throughout. Prior knowledge of programming is not necessary. (Not open to those who have had 1701.332) Prerequisite: 1701.274

1701.531 TOPICS IN PROBABILITY (3) Review of basis probability theory, types of convergence and limit theorems, elementary stochastic processes, Markov chains, birth and death processes, Gaussian processes. Examples from engineering physical and social sciences, management and statistics. Prerequisite: 1701.331

1701.553 TOPICS IN GEOMETRY (3) Axiomatic development of Euclidean, elliptic and hyperbolic geometries; the study of the analytic plane, the sphere and the Poincare model, as models for these axiomatic systems. Not open to students who have had 1701.353. Prerequisite: 1701.274 and 1701.361.

1701.561 ELEMENTS OF GALOIS THEORY (3) Review of elementary group theory, polynomial rings, algebraic field extensions, Galois theory for fields of characteristic 0, solution of polynomial equations by radicals, other applications of Galois Theory. Prerequisite: 1701.361.

1701.591 SEMINAR IN MATHEMATICAL APPLICATIONS (3) Survey with topics to be chosen from: linear programming theory of games, mathematical biology, econometrics, mathematical ecology, Fourier Analysis, integral equations, partial differential equations, diffusion, stochastic processes, production theory, statistical mechanics, fluid dynamics. Prerequisite: 1701.373.

1701.595 INDEPENDENT STUDY IN MATHEMATICS (1-3) Directed independent study in selected areas of graduate level mathematics. Prerequisite: Permission of instructor and graduate adviser.

Modern Languages

Chairperson: Thomas G. Evans

FRENCH COURSES (1102)

Upper Division—Undergraduate and Graduate

- 1102.325 MASTERPIECES OF FRENCH LITERATURE IN TRANSLATION (3)
- 1102.401 FRENCH PHONETICS (3)
- 1102.402 APPLIED FRENCH LINGUISTICS (3)
- 1102.421 FRENCH LITERATURE OF THE SEVENTEENTH CENTURY I (3)
- 1102.422 FRENCH LITERATURE OF THE SEVENTEENTH CENTURY II (3)
- 1102.425 FRENCH LITERATURE OF THE EIGHTEENTH CENTURY (3)
- 1102.431 FRENCH LITERATURE OF THE NINETEENTH CENTURY I (3)
- 1102.432 FRENCH LITERATURE OF THE NINETEENTH CENTURY II (3)
- 1102.437 WOMEN WRITERS IN TRANSLATION (3)
- 1102.441 FRENCH LITERATURE OF THE TWENTIETH CENTURY I (3)
- 1102.442 FRENCH LITERATURE OF THE TWENTIETH CENTURY II (3)
- 1102.451 FRENCH POETRY I (3)
- 1102.452 FRENCH POETRY II (3)
- 1102.461 FRENCH DRAMA I (3)
- 1102.462 FRENCH DRAMA II (3)
- 1102.470 SPECIAL TOPICS IN FRENCH (3)
- 1102.471 THE FRENCH NOVEL I (3)
- 1102.472 THE FRENCH NOVEL II (3)
- 1102.475 USE OF AUDIO-VISUAL TECHNIQUES IN
MODERN LANGUAGE TEACHING (3)
- 1102.483 SPECIAL TOPICS IN FOREIGN LANGUAGE TEACHING (3)
- 1102.487 TRAVEL AND STUDY ABROAD (4-15)
- 1102.491 DIRECTED READINGS IN FRENCH LITERATURE (3)
- 1102.492 DIRECTED READING IN FRENCH (3)

1102.505 ETUDES ET TRAVAUX STYLISTIQUES (3) Practice in writing and comparison of style of various writers. Intensive and detailed explications de texte. Discussion, oral and written reports. Conducted in French. Prerequisite: Undergraduate degree in French.

1102.533 SEMINAR ON FRENCH CLASSICISM I (3) The origins and underlying ideas of Classicism. Study of main classic writers, with shifting emphasis from year to year. Conducted in French. Prerequisite: Undergraduate degree in French.

1102.534 SEMINAR ON FRENCH CLASSICISM II (3) The origins and underlying ideas of Classicism. Study of main classic writers, shifting emphasis from year to year. Conducted in French. Prerequisite: Undergraduate degree in French.

1102.538 SEMINAR IN EIGHTEENTH CENTURY FRENCH LITERATURE (3) The literature of the French Enlightenment concentrating on one or two major authors, with shifting emphasis from year to year. Conducted in French. Prerequisite: Undergraduate degree in French.

1102.539 THE ROMANTIC ERA IN FRANCE (3) Sources and theories of French romanticism. Works of major French romantic writers, with shifting emphasis from year to year. Conducted in French. Prerequisite: Undergraduate degree in French.

1102.543-544 PERSPECTIVE DE CRITIQUE LITTERAIRE EN FRANCE (3)
A history of French literary criticism leading to the study of the various

techniques and objectives of all literary criticism and analysis, eventuating in the application of these techniques by the student himself to selected works of French literature. Conducted in French. Prerequisite: Undergraduate degree in French.

1102.571 SPECIAL TOPICS IN FRENCH LANGUAGE, LITERATURE AND CIVILIZATION (3) Grande Mouvements Littéraires en France du IXX et XX Siecles. Prerequisite: Any undergraduate degree in French.

GERMAN COURSES (1103)

Upper Division—Undergraduate and Graduate

- 1103.325 MASTERPIECES OF GERMAN LITERATURE IN TRANSLATION (3)
- 1103.401 GERMAN PHONETICS (3) ‘
- 1103.427-428 CLASSICISM I, II (3,3)
- 1103.431 ROMANTICISM (3)
- 1103.441 MODERN GERMAN LITERATURE (3)
- 1103.442 GERMAN LITERATURE SINCE 1945 (3)
- 1103.451 STUDIES IN THE GERMAN LYRIC (3)
- 1103.461 GERMAN DRAMA OF THE NINETEENTH AND TWENTIETH CENTURIES (3)
- 1103.465 GOETHE'S FAUST (3)
- 1103.470 SPECIAL TOPICS IN GERMAN (3)
- 1103.481 THE GERMAN NOVELLE (3)
- 1103.483 SPECIAL TOPICS IN FOREIGN LANGUAGE TEACHING (3)
- 1103.491 DIRECTED READINGS IN GERMAN LITERATURE (3)
- 1103.492 DIRECTED READINGS IN GERMAN LITERATURE (3)

SPANISH COURSES (1105)

Upper Division—Undergraduate and Graduate

- 1105.325 MASTERPIECES OF SPANISH LITERATURE IN TRANSLATION (3)
- 1105.401 SPANISH PHONETICS (3)
- 1105.402 SPANISH LINGUISTICS (3)
- 1105.417-418 THE GOLDEN AGE IN SPANISH LITERATURE I, II (3)
- 1105.431 NINETEENTH CENTURY SPANISH LITERATURE (3)
- 1105.435 NINETEENTH CENTURY SPANISH AMERICAN LITERATURE I (3)
- 1105.436 NINETEENTH CENTURY SPANISH AMERICAN LITERATURE II (3)
- 1105.441 TWENTIETH CENTURY SPANISH LITERATURE I (3)
- 1105.442 TWENTIETH CENTURY SPANISH LITERATURE II (3)
- 1105.443 TWENTIETH CENTURY SPANISH AMERICAN LITERATURE I (3)
- 1105.444 TWENTIETH CENTURY SPANISH AMERICAN LITERATURE II (3)
- 1105.451 SPANISH POETRY I (3)
- 1105.452 SPANISH POETRY II (3)
- 1105.461 SPANISH DRAMA I (3)
- 1105.462 SPANISH DRAMA II (3)
- 1105.471 SPANISH NOVEL I (3)
- 1105.472 SPANISH NOVEL II (3)
- 1105.481 SPANISH SHORT STORY (3)
- 1105.483 SPECIAL TOPICS IN FOREIGN LANGUAGE TEACHING (3)
- 1105.491 DIRECTED READING IN SPANISH LITERATURE (3)
- 1105.492 DIRECTED READING IN SPANISH (3)

Graduate Division

1105.503 HISTORY OF THE SPANISH LANGUAGE (3) Survey of the development of the Spanish language from its origins to present day in Spain and in Spanish-America. Prerequisite: Undergraduate degree in Spanish.

1105.505 SPANISH STYLISTICS (3) Intensive and detailed analysis of selected texts. Discussion and oral reports. Required weekly compositions. Prerequisite: Undergraduate degree in Spanish.

1105.521 SEMINAR IN MIGUEL DE UNAMUNO (3) Life's tragedy: conflict between reason and faith as shown in his novels, theatre, essays, and poetry. Conducted in Spanish. Prerequisite: BA or 18 hours credit of Spanish beyond intermediate or permission of instructor.

1105.531 SEMINAR ON BENITO PEREZ GALDOS (3) His version of the condition of man in nineteenth century Spain and his effort to improve society by changing individual behavior. Conducted in Spanish. Prerequisite: B.A. degree in Spanish.

1105.535 SPANISH LITERATURE OF THE MIDDLE AGES (3) Reading discussion and analysis of early Spanish literature. Prerequisite: Undergraduate degree in Spanish.

1105.536 POETRY AND DRAMA OF THE SPANISH GOLDEN AGE (3) Graduate study of major writers of the Siglo de Oro with shifting emphasis from year to year. Conducted in Spanish. Prerequisite: B.A. degree in Spanish.

1105.539 CRITICAL APPROACHES TO SPANISH LITERATURE (3) Study and analysis of the formal aspects of selected Spanish literary texts. Prerequisite: Undergraduate degree in Spanish.

1105.541 SEMINAR IN RAMON DEL VALLE-INCLAN (3) Analysis and discussion of the works of Ramon del Valle-Inclan. Prerequisite: Undergraduate degree in Spanish.

1105.551 SEMINAR IN PIO BAROJA (3) Analysis and discussion of the works of Pio Baroja. Prerequisite: Undergraduate degree in Spanish.

1105.533 MIGUEL DE CERVANTES (3) Don Quijote de la Mancha and the Novelas Ejemplares, reading and detailed analysis. Prerequisite: Undergraduate degree in Spanish.



Music

Chairperson: Golden Arrington
Graduate Studies Coordinator
Music Education Program: Clifford D. Alper

MUSIC COURSES (MUSIC 1005; MUSIC APPLIED 1004;
MUSIC APPRECIATION 0832)

Upper Division—Undergraduate and Graduate

- 1004.471-72 BRASS PRIVATE LESSONS (1-3)
- 1004.473-74 ORGAN PRIVATE LESSONS (1-3)
- 1004.475-76 PERCUSSION PRIVATE LESSONS (1-3)
- 1004.477-78 PIANO PRIVATE LESSONS (1-3)
- 1004.479-80 STRING PRIVATE LESSONS (1-3)
- 1004.481-82 VOICE PRIVATE LESSONS (1-3)
- 1004.483-84 WOODWIND PRIVATE LESSONS (1-3)
- 1004.485-86 GUITAR PRIVATE LESSONS (1-3)
- 1004.487-88 COMPOSITION PRIVATE LESSONS (1-3)

Graduate Division

1004.571-572 BRASS PRIVATE LESSONS (1-3) Private lessons in brass. Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for credit. Prerequisite: Permission of department chairperson.

1004.573-574 ORGAN PRIVATE LESSONS (1-3) Private lessons in organ. Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for credit. Prerequisite: Permission of department chairperson.

1004.575-576 PERCUSSION PRIVATE LESSONS (1-3) Private lessons in percussion. Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for credit. Prerequisite: Permission of department chairperson.

1004.577-578 PIANO PRIVATE LESSONS (1-3) Private lessons in piano. Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for credit. Prerequisite: Consent of department chairperson.

1004.579-580 STRING PRIVATE LESSONS (1-3) Private lessons in strings. Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for credit. Prerequisite: Permission of department chairperson.

1004.581-582 VOICE PRIVATE LESSONS (1-3) Private lessons in voice. Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for credit. Prerequisite: Permission of department chairperson.

1004.583-584 WOODWIND PRIVATE LESSONS (1-3) Private lessons in woodwinds. Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for credit. Prerequisite: Permission of department chairperson.

1004.585-586 GUITAR PRIVATE LESSONS (1-3) Private lessons in guitar. Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for credit. Prerequisite: Permission of department chairperson.

1004.587-588 COMPOSITION PRIVATE LESSONS (1-3) Private lessons in composition. Fee of \$50.00 per semester. One half-hour lesson per week. May be repeated for credit. Prerequisite: Permission of department chairperson.

Upper Division—Undergraduate and Graduate

- 1005.401 MUSIC PRIOR TO 1600 (3)
- 1005.402 MUSIC OF THE BAROQUE PERIOD (3)
- 1005.403 MUSIC OF THE CLASSICAL PERIOD (3)
- 1005.404 MUSIC OF THE ROMANTIC PERIOD (3)
- 1005.405 CONTEMPORARY MUSIC (3)
- 1005.406 SURVEY OF SOLO VOICE LITERATURE (3)
- 1005.407 COUNTERPOINT (3)
- 1005.411 SURVEY OF OPERA (3)
- 1005.412 WIND ENSEMBLE (1)
- 1005.413 SYMPHONIC LITERATURE (3)
- 1005.420 WORKSHOP IN MUSIC INSTRUMENT REPAIR AND MAINTENANCE (1)
- 1005.421 AMERICAN MUSIC (3)
- 1005.423 HISTORY OF JAZZ (3)
- 1005.424 ADVANCED WOODWINDS (DOUBLE REEDS) (3)
- 1005.427-428 JAZZ ARRANGING I, II (3,3)
- 1005.429-430 JAZZ IMPROVISATION I, II (3,3)
- 1005.431 ADVANCED CHORAL AND INSTRUMENTAL ARRANGING (3)
- 1005.432 SEMINAR IN ADVANCED INSTRUMENTAL CONDUCTING AND INTERPRETATION (1)
- 1005.433 ADVANCED THEORY (3)
- 1005.435 FORM AND ANALYSIS (3)
- 1005.449-450 STRING ENSEMBLE (1,1)
- 1005.459-460 COMMUNITY CHORUS (1,1)
- 1005.467-468 ORCHESTRA (1,1)
- 1005.469-470 CONCERT BAND (1,1)
- 1005.471-488 PRIVATE LESSONS (1-3)
- 1005.493 INDEPENDENT RESEARCH IN MUSIC LITERATURE (3)

Graduate Division

1005.515 THE CONCERTO (3) A survey of the concerto form from its inception to the present. Analysis of stylistic, formal, and compositional aspects will be included. Prerequisite: Admission to graduate standing with Music major and consent of Department Chairperson.

1005.539 MUSIC COMPOSITION (3) Analysis and discussion of works of major composers. Writing of original compositions in vocal and instrumental idioms. Prerequisite: 1095.232, 10.335, 1095.435.

1005.562 SEMINAR IN CHORAL (VOCAL) MUSIC (3) Comparative analysis of current methods and materials used in schools and colleges. Choral conducting and repertoire. Style interpretation, tone quality diction, rehearsal and conducting techniques are analyzed. Prerequisite: Admission to the Graduate Program.

1005.595 RESEARCH METHODS IN MUSIC AND MUSIC EDUCATION (3) The application of methods of research to problems in the field of music and music education, the preparation of bibliographies and specialized techniques for the location, collection and treatment of data. The written exposition of research projects in the area of the student's major interest. Prerequisite: Admission to the Graduate Program.

1005.697 THESIS PROJECT (3) Thesis project includes: graduate recital or musical composition in lieu of thesis.

1005.699 MASTER'S THESIS IN MUSIC (3)

Minimester only

1005.002 EDITING BRASS MUSIC: RENAISSANCE AND BAROQUE (3)
Identification of music in primary sources in the Library of Congress and other libraries; editing that music for use in contemporary brass groups. Regular readings of the music on our own instruments; a concert presentation at the end of the minimester. Prerequisite: Ability to perform on a brass instrument.

1005.007 WORKSHOP: ASPECTS OF TROMBONE PERFORMANCE (1)
A concentrated series of lectures, recitals, concerts, clinics, and rehearsals in the art of trombone performance in all fields to include symphonic, chamber, solo, commercial, jazz new works. Prerequisite: Ability to perform on trombone at college level.

MUSIC EDUCATION COURSES (0832)

0832.408 ORGANIZATION AND ADMINISTRATION OF MUSIC EDUCATION (3)

0832.419 WORKSHOP: ASPECTS OF STRING TEACHING (2)

Graduate

0832.501 CURRENT TRENDS IN MUSIC AND MUSIC EDUCATION (SEMINAR) (3) A survey of current philosophies and objectives of music in the schools and the scope and sequence of the music curricula, vocal and instrumental, on the elementary and secondary levels. Prerequisite: Admission to the Graduate Program.



Philosophy and Religion

Chairperson: Charles R. Eberhardt

PHILOSOPHY AND RELIGION COURSES (1509)

Upper Division—Undergraduate and Graduate

- 1509.301 PHILOSOPHIES OF INDIA (3)
- 1509.302 PHILOSOPHIES OF CHINA AND JAPAN (3)
- 1509.321 PRE-SOCRATIC AND CLASSICAL GREEK PHILOSOPHY (3)
- 1509.322 LATE CLASSICAL AND MEDIEVAL PHILOSOPHY (3)
- 1509.323 LATE MEDIEVAL AND RENAISSANCE PHILOSOPHY (3)
- 1509.324 MODERN PHILOSOPHY (3)
- 1509.325 SCHOOLS OF CONTEMPORARY PHILOSOPHY (3)
- 1509.326 AMERICAN PHILOSOPHY (3)
- 1509.331 CONCEPTS OF WOMAN: A HISTORICAL APPROACH (3)
- 1509.341 ETHICS (3)
- 1509.343 AESTHETICS (3)
- 1509.354 PHILOSOPHY OF BIBLICAL LITERATURE: OLD TESTAMENT (3)
- 1509.410 CONTEMPORARY ETHICAL PROBLEMS (3)
- 1509.421 ARCHAEOLOGY OF PALESTINE AND TRANS-JORDANIA (3)
- 1509.431 ETHICS OF MEDICINE AND THE LIFE SCIENCES (3)
- 1509.440-449 PHILOSOPHICAL SYSTEMS (3-3)
- 1509.451 PHILOSOPHY OF RELIGION (3)
- 1509.454 PHILOSOPHY OF BIBLICAL LITERATURE: NEW TESTAMENT (3)
- 1509.455 HELLENISTIC ERA (3)
- 1509.457 COMPARATIVE RELIGION I (3)
- 1509.458 COMPARATIVE RELIGION II (3)
- 1509.459 PROTESTANT, CATHOLIC, JEW (3)
- 1509.461 THE HISTORICAL GEOGRAPHY AND ARCHAEOLOGY OF PALESTINE (3)
- 1509.463 MODERN ATHEISM (3)
- 1509.470-479 PHILOSOPHICAL PROBLEMS (3-3)
- 1509.495 RESEARCH TUTORIAL IN PHILOSOPHY (3)



Physical Education

Chairperson: J. Ellen Eason

PHYSICAL EDUCATION COURSES (0835)

Upper Division—Undergraduate and Graduate

- 0835.311 KINESIOLOGY (3)
- 0835.313 PHYSIOLOGY OF EXERCISE (3)
- 0835.412 THEORY AND ANALYSIS OF GYMNASTICS MOVEMENT (3)
- 0835.415 ADVANCED CARE AND PREVENTION OF
ATHLETIC INJURIES (2)
- 0835.419 SWIMMING AND POOL MANAGEMENT (3)
- 0835.421 PHYSICAL EDUCATION PROGRAM IN THE
ELEMENTARY SCHOOLS (3)
- 0835.423 ADAPTIVE PHYSICAL EDUCATION (3)
- 0835.425 MODERN DANCE IN THE SECONDARY SCHOOL (3)
- 0835.430 MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL (3)
- 0835.441 THE SPORTSWOMAN IN AMERICAN SOCIETY (3)
- 0835.451 PERSPECTIVES IN AMERICAN SPORT (3)
- 0835.453 ORGANIZATION AND ADMINISTRATION OF ATHLETICS (3)
- 0835.471 PERCEPTUAL-MOTOR DEVELOPMENT IN
PHYSICAL EDUCATION (3)
- 0835.485 SELECTED TOPICS IN PHYSICAL EDUCATION (1-3)

Graduate Division

0835.509 PSYCHOLOGY OF MOTOR LEARNING (3) Investigation of the various psychological factors that affect the acquisition of motor skills. Emphasis will be focused on teaching and practice methodology, motivational factors, learning theories, physical and motor considerations, anxiety, stress, tension, competition, mental practice, transfer of training, level of aspiration, etc. Prerequisite: Consent of graduate coordinator.

0835.512 SIGNIFICANT PERIODS IN PHYSICAL EDUCATION (3) An examination of the influence of Greek, Roman, European, and English concepts of physical education upon American physical education. Emphasis on the formation and development of American concepts of physical education. Consent of graduate coordinator.

0835.513 ANALYSIS OF PHYSIOLOGICAL CONCEPTS (3) Analysis of research and laboratory application of the physiological factors that affect human efficiency before, during and after exercise. Factors to be investigated include: metabolism, circulation-respiration, muscular physiology, endocrine system, ergogenic aids, environmental factors, etc. Prerequisite: Consent of department chairperson. Major in Physical Education or major in a suitable science area and consent of graduate coordinator.

0835.530 MECHANICAL ANALYSIS OF MOVEMENT (3) Various basic mechanical principles are analyzed as they relate to efficient human movement. The physical laws to be studied are leverage, motion, projectiles, gravity, buoyancy, and equilibrium. The design of the course will be research oriented. Prerequisites: Kinesiology 0835.311 and an undergraduate major in Physical Education and consent of the graduate coordinator.

0835.533 ADMINISTRATION AND SUPERVISION OF PHYSICAL EDUCATION (3) Designed to acquaint the student with the scope, problems and techniques of administering and supervising a program of Physical Education.

The work of the chairperson of the department, problems of personnel, program, facilities, and evaluation will be discussed. Prerequisites: Undergraduate degree in Physical Education and consent of graduate coordinator.

0835.539 CRITICAL ANALYSIS OF CURRENT LITERATURE IN PHYSICAL EDUCATION (3) Designed to facilitate the depth and quality of the knowledge of students, teachers, administrators, supervisors and research personnel in their assessment and investigation of the following aspects of the Physical Education profession; contemporary leaders, books, journals, periodicals, projects, trends, issues, innovation, etc. Prerequisite: Undergraduate degree in Physical Education or consent of graduate coordinator.

0835.541 EVALUATIVE TECHNIQUES IN PHYSICAL EDUCATION (3) Designed primarily to develop analytical ability in the administration, assessment, and interpretation of test results. Research and laboratory application involves the evaluation of measurements of classification indexes, power agility, balance, flexibility, kinesthetic perception, speed and reaction time, strength, muscular endurance, cardiovascular conditions, sport skills, etc. Prerequisites: Undergraduate major in Physical Education and consent of graduate coordinator.

0835.545 FACILITIES AND EQUIPMENT FOR PHYSICAL EDUCATION (3) Designed to cover the principles of programming and planning facilities for physical education. Indoor and outdoor activity areas will be studied as well as their maintenance. Procedure related to selection, purchase and care of equipment will be included. Prerequisites: Undergraduate degree with a major in Physical Education and consent of the graduate coordinator.

0835.547 RESEARCH SEMINAR (3) Individual research on a significant problem through consultation with designated faculty members. Focus will be on the experimental design and the proper structural format for project or thesis formulation. Prerequisites: EDUC 0801.691 as well as undergraduate major in Physical Education and consent of graduate coordinator.

0835.551 COMPARATIVE PHYSICAL EDUCATION-CONTEMPORARY AND INTERNATIONAL (3) A comparative analysis of contemporary patterns of physical education in selected countries throughout the world. Prerequisites: Undergraduate major in Physical Education and consent of graduate coordinator.

0835.553 CONTEMPORARY PHYSICAL EDUCATION CURRICULUM (3) Curriculum design for elementary and secondary school physical education. Examination of current literature pertinent to aims, objectives, contents, and method of physical education. Prerequisites: Teaching experience, undergraduate Physical Education major and consent of graduate coordinator.

Physics

Chairperson: Eddie Loh

PHYSICAL SCIENCE COURSES (1901)

Upper Division—Undergraduate and Graduate

- 1901.303 EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION (3)
- 1901.322 GEOMORPHOLOGY OF THE EASTERN UNITED STATES (3)
- 1901.331 MINERALOGY (4)
- 1901.333 PETROLOGY OF IGNEOUS AND METAMORPHIC ROCKS (4)
- 1901.401 ADVANCED LABORATORY IN PHYSICAL SCIENCE (2)
- 1901.405 FUNDAMENTAL CONCEPTS IN THE EARTH SCIENCES (3)
- 1901.443 SEDIMENTOLOGY AND SEDIMENTARY PETROLOGY (3)
- 1901.495 COURSE RESEARCH IN 400-LEVEL COURSES

PHYSICS COURSES (1902)

Upper Division—Undergraduate and Graduate

- 1902.301 MECHANICS (4)
- 1902.302 THERMODYNAMICS AND KINETIC THEORY (3)
- 1902.305 ELECTRICITY AND MAGNETISM (4)
- 1902.311 MODERN PHYSICS (4)
- 1902.313 HISTORY AND PHILOSOPHY OF PHYSICS (2)
- 1902.321 INTRODUCTORY MATHEMATICAL PHYSICS (3)
- 1902.331 MECHANICS II (4)
- 1902.335 BASIC ELECTRONICS (4)
- 1902.337 DIGITAL ELECTRONICS (4)
- 1902.381 INTERMEDIATE PHYSICS LABORATORY I (2)
- 1902.382 INTERMEDIATE PHYSICS LABORATORY II (2)
- 1902.395 COURSE RESEARCH IN 300-LEVEL COURSES
- 1902.401-402 PHYSICS SEMINAR III (1-1)
- 1902.411 PHYSICAL OPTICS (3)
- 1902.435 ELECTRONICS (3)
- 1902.451 NUCLEAR PHYSICS (3)
- 1902.471 INTRODUCTORY QUANTUM MECHANICS (3)
- 1902.472 INTRODUCTION TO STATISTICAL MECHANICS (3)
- 1902.490 INDEPENDENT STUDY IN PHYSICS (1-4)
- 1902.491 DIRECTED READINGS (1-4)

SCIENCE EDUCATION COURSES (0834)

Upper Division—Undergraduate and Graduate

- 0834.376 TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3)
- 0834.380 TEACHING SCIENCE IN THE SECONDARY SCHOOL (3)
- 0834.401 SEQUENTIAL SCIENCE MODULES FOR THE ELEMENTARY SCHOOL TEACHER (1-3)
- 0834.488 AEROSPACE EDUCATION WORKSHOP (3)

Graduate Division

- 0834.585 SEMINAR IN ELEMENTARY SCHOOL SCIENCE (3) Seminar approach to current practices and trends in organizing, teaching, and improving programs in elementary school science. Each student conducts a limited research on some aspect of science teaching. Prerequisite: Elementary teaching.

Psychology

Chairperson: James M. Furukawa

Graduate Studies Coordinator: Stanley Zweback

PSYCHOLOGY COURSES (2001)

Upper Division—Undergraduate and Graduate

- 2001.305 PSYCHOLOGY OF LEARNING (3)
- 2001.309 BEHAVIORAL PHARMACOLOGY (3)
- 2001.311 BEHAVIOR MODIFICATION I (3)
- 2001.312 BEHAVIOR MODIFICATION II (3)
- 2001.315 MOTIVATION (3)
- 2001.317 SENSATION AND PERCEPTION (3)
- 2001.321 ADOLESCENT PSYCHOLOGY (3)
- 2001.330 PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (3)
- 2001.341 ENVIRONMENTAL PSYCHOLOGY (3)
- 2001.350 PERSONALITY (3)
- 2001.361 ABNORMAL PSYCHOLOGY (3)
- 2001.381 READINGS IN PSYCHOLOGY (1-2)
- 2001.383 PROCTORING IN PSYCHOLOGY (3)
- 2001.385 SEMINAR IN PSYCHOLOGY (1-3)
- 2001.401 HUMAN LEARNING (3)
- 2001.405 THE PSYCHOLOGY OF AGING (3)
- 2001.407 PSYCHOLOGY OF READING (3)
- 2001.409 ORGANIZATIONAL PSYCHOLOGY (3)
- 2001.411 TESTS AND MEASUREMENTS (3)
- 2001.413 CLINICAL TESTING PROCEDURES I (3)
- 2001.414 CLINICAL TESTING PROCEDURES II (3)
- 2001.416 PERSONALITY MEASUREMENT (3)
- 2001.421 APPLICATIONS OF BEHAVIORAL PRINCIPLES TO FAMILY AND CLASSROOM ENVIRONMENTS (3)
- 2001.425 INTRODUCTION TO THE HELPING RELATIONSHIP (3)
- 2001.427 INTRODUCTION TO INTERVIEWING TECHNIQUES I (3)
- 2001.428 INTERVIEWING TECHNIQUES II (3)
- 2001.429 INTRODUCTION TO THE COUNSELING OF MINORITY GROUPS (3)
- 2001.430 SYSTEMS AND TECHNIQUES OF COUNSELING PRACTICE (3)
- 2001.431 GROUP DYNAMICS (3)
- 2001.435 SUPERVISED FIELD EXPERIENCE (3-6)
- 2001.437 CLINICAL INTERVIEWING I (3)
- 2001.439 CLINICAL INTERVIEWING II (3)
- 2001.441 INFORMATION SERVICE IN COUNSELING AND GUIDANCE (3)
- 2001.443 FIELD TRAINING IN HUMAN SERVICES (1-2)
- 2001.451 INTRODUCTION TO ACTIVITY THERAPY (4)
- 2001.453 INTRODUCTION TO PSYCHOTHERAPY I (3)
- 2001.455 INTRODUCTION TO PSYCHOTHERAPY II (4)
- 2001.457 ADJUNCTIVE SERVICES TO FAMILIES OF PATIENTS (4)
- 2001.460 COMPARATIVE PSYCHOLOGY (4)
- 2001.461 COGNITIVE PSYCHOLOGY (3)
- 2001.465 PHYSIOLOGICAL PSYCHOLOGY (4)
- 2001.471 INTRODUCTION TO THE EXCEPTIONAL CHILD (3)
- 2001.475 IDENTIFICATION AND TREATMENT OF SENSORY DISABILITIES IN THE SCHOOLS (3)

2001.480 SYSTEMS OF PSYCHOLOGY (3)
2001.485 EXPERIMENTAL DESIGN (4)
2001.491 INDEPENDENT INVESTIGATION IN PSYCHOLOGY (3)

Minimester only

2001.005 SEXUAL COUNSELING (3)

GRADUATE

2001.511 DEVELOPMENTAL PSYCHOLOGY (3) Psychological structures and functions in human development. Theoretical and research approaches. Prerequisite: 2001.201 or equivalent.

2001.513 COMMUNITY MENTAL HEALTH COUNSELING (3) To expose students to the general working of various types of community health centers. The course will also introduce students to the basic mental health services and the relationships between those services; the responsibility of counseling in a mental health center; and the area of mental health consultant. Emphasis will be given to the application of counseling skills in a mental health setting. The course is intended to be a prepracticum. Prerequisite: 2001.430

2001.515 INTRODUCTION TO RESEARCH METHODS IN COUNSELING (3) An introduction to the principal methods of behavioral research emphasizing concepts rather than statistical procedures. The course should prepare counselors to evaluate methods, designs, and results of counseling research. Prerequisite: Graduate standing in Counseling.

2001.520 INDIVIDUAL INTELLIGENCE TESTING (3) Construction, standardization, administration, scoring and interpretation of the Wechsler Individual Intelligence Tests, the Stanford-Binet Intelligence Scale, Human Figure Drawings, the Bender-Gestalt, the Gray Oral Reading Test and the Wide Range Achievement Test. Open only to MA candidate in School or Clinical concentration. Prerequisite: 2001.111 and 2001.411. Consent of coordinator.

2001.521 ADVANCED EDUCATIONAL PSYCHOLOGY (3) Survey of current research in Child Psychology, Learning, Mental Hygiene, and Tests and Measurements. Emphasis on critical analysis of studies. Prerequisite: 2001.511.

2001.531 ADVANCED ABNORMAL PSYCHOLOGY (3) Current and historical perspectives of psychopathology. Emphasis on varied approaches in contemporary schools. Methods of assessment and treatment. Prerequisite: 2001.230 or 2001.361.

2001.540 MENTAL HYGIENE IN EDUCATION (3) Principles of mental hygiene and their application to the educational setting. Major emphasis on wholesome personality development. Prerequisite: 2001.511

2001.543 INTRODUCTION TO SCHOOL PSYCHOLOGY (1) An introduction to ethics and issues in school psychology and preparation of the student to move efficiently through the program. This course should be taken at the beginning of the student's course of studies. Prerequisite: Open only to MA candidate in the School Psychology program. Consent of the coordinator.

2001.545 COPING STRATEGIES IN THE CLASSROOM (3) Practical application of psychological principles and concepts as related directly to the classroom. This course is designed to increase teacher awareness of the teacher's impact on the classroom members with specific emphasis on individual differences. This course is for teachers, counselors and administrators. Prerequisite: 2001.551

2001.550 DIAGNOSTIC TECHNIQUES IN EDUCATION (3) Use of standardized and teacher-constructed instruments for diagnostic and instruc-

tional purposes. Prerequisite: 2001.511, 2001.411 or equivalent.

2001.551 TECHNIQUES OF GROUP INTERVENTION (3) A theoretical and experiential introduction to the techniques available for use with children experiencing difficulty in the school. Emphasis will be on learning the techniques through action participation. Prerequisite: M.A. candidate in School or Clinical concentration or in Counseling program. Consent of coordinator.

2001.553 ISSUES AND RESEARCH IN SCHOOL/CLINICAL PSYCHOLOGY (3) Provides for analysis of major issues in school and/or clinical psychology through the study of selected research. Prerequisite: 2001.111. Open only to M.A. candidate in School of Clinical Concentration. Consent of coordinator.

2001.561 FOUNDATIONS OF REHABILITATION COUNSELING (3) The development of rehabilitation programs; their legal basis and historical background. The role of medical, psychological, educational and community resources in the rehabilitation program are explored. Client eligibility, determination, and counselor responsibilities will be reviewed. Prerequisite: 2001.101

2001.563 SYSTEMS OF PSYCHOTHERAPY (3) Course is designed to acquaint students with the more prominent schools of psychotherapy. Particular emphasis is placed on the psychotherapeutic aspect of educational and clinical settings. Prerequisite: 2001.350, 2001.361, or 2001.230, 2001.531.

2001.565 PSYCHOTHERAPY AND BEHAVIOR CHANGE I (3) The first of a two semester sequence designed to acquaint the student through readings, lectures, and actual experience with the various theories and techniques currently utilized in behavior change including individual psychotherapy, family therapy, transactional analysis, rational emotive therapy and behavior modification. Psychotherapy and Behavior Change I may be taken without Psychotherapy and Behavior Change II. Prerequisite: Graduate standing in school or clinical psychology tracks.

2001.566 PSYCHOTHERAPY AND BEHAVIOR CHANGE II (3) The second of a two semester sequence focused on the continued analysis of major psychotherapy approaches. Each student will conduct an intensive examination of a single psychotherapeutic approach. A seminar paper and a class presentation of the paper will be required. Open to students with a Master's degree who have completed equivalent of Psychotherapy and Behavior Change I. Prerequisite: Psychotherapy and Behavior Change I (2001.565)

2001.567 PSYCHO-SOCIAL ASPECTS OF DISABILITY (3) The effect of the psycho-social milieu on the disabled person's self-concept will be considered, and approaches to facilitating autonomy and self-actualizing goals in the disabled will be discussed. Prerequisite: Graduate standing in Psychology or consent of instructor.

2001.568 MEDICAL ASPECTS OF DISABILITY (3) For students in Rehabilitation Counseling and related areas. Structure and function of bodily systems, and implications of physical disabilities in coping with the problems of daily living. Prerequisite: 2001.101

2001.570 REFERRAL RESOURCES FOR THE SCHOOL AGE CHILD (3) A study of referral services for the enhancement of the emotional, vocational and the behavioral adaptation of children in need of services beyond the Classroom situation. The course attempts to give direct knowledge to the student of all such specialized facilities both school and community sponsored. Prerequisite: 2001.511

2001.573 ADVANCED EXPERIMENTAL I (4) The first semester is comprised of experimentation in the field of human behavior, and the second semester will emphasize experimentation in the field of animal behavior. Prerequisite: 2001.111, 2001.261 or equivalent. Consent of department.

2001.574 ADVANCED EXPERIMENTAL II (4) The first semester is comprised of experimentation in the field of human behavior and the second semester will emphasize experimentation in the field of animal behavior. Prerequisite: 2001.111, 2001.261 or equivalent. Consent of department.

2001.575 PROSEMINAR I (3) An intensive survey of basic issues and concepts in learning, perception, motivation, and physiological. Prerequisite: 2001.261 or equivalent.

2001.576 PROSEMINAR II (3) An intensive survey of basic issues and concepts in social, developmental, personality, and abnormal psychology. Prerequisite: 2001.261 or equivalent.

2001.577 LEARNING (3) A thorough coverage of major learning theories and models. Prerequisite: 2001.305 or equivalent. Consent of department.

2001.579-580 SEMINAR IN PSYCHOLOGY (2, 2) Exploration of current developments in psychology. Topics dependent upon student and faculty interest.

2001.581 ADVANCED HISTORY AND SYSTEMS OF PSYCHOLOGY (3) Ancient and modern psychological history; discussion of ancient history will draw heavily from both philosophy and physiology; discussion of modern history will develop psychology in various countries. The analysis of systems will include a study of functionalism, structuralism, behaviorism Gestalt and psychoanalysis.

2001.584 COLLEGE TEACHING SEMINAR (3) Materials and procedures for producing successful students in lower level courses will be explored.

2001.585 COLLEGE TEACHING PRACTICUM (3) Supervised teaching of introductory psychology. Prerequisite: 2001.584

2001.587 ADVANCED EXPERIMENTAL DESIGN I (3) An advanced treatment of descriptive and inferential statistical methods and design considerations. Prerequisite: 2001.111 or equivalent.

2001.588 ADVANCED EXPERIMENTAL DESIGN II (3) An in-depth treatment of advanced analysis of variance designs and related techniques. Prerequisite: 2001.587 or equivalent.

2001.589 MULTIVARIATE METHODS (3) Multivariate statistical methods useful in behavioral scientific research. Topics correlation, regression, factor analysis, discriminant analysis. Prerequisite: 2001.587

2001.591 PROJECTIVE TECHNIQUES I (3) This is the first of a two-course sequence dealing with projective techniques. Credit will be awarded only upon completion of the first and second semesters of the sequence. The first semester emphasizes an introduction to the administration, scoring and interpretation of projectives in current clinical use. Prerequisite: Open only to MA candidate in School or Clinical concentration. Consent of Coordinator.

2001.592 PROJECTIVE TECHNIQUES II (3) The second of a two semester sequence in projective techniques. This semester emphasizes the interpretation and appropriate transmission of projective data. Particular emphasis will be placed on the evaluation of learning problems. Prerequisite: 2001.591. Open only to MA candidate in School or Clinical concentration. Consent of coordinator.

2001.593 INTERNSHIP IN COUNSELING (3) Experiences vary according to track; however, this is a broad but intensive experience within a counseling facility involving exposure to the many facets of a mental health professional including administrative and record-keeping duties; individual and group counseling observations and experiences; referral resources, etc. Prerequisites: Student must have taken at least 18 hours in program.

2001.605 PRINCIPLES OF GUIDANCE (3) Aims at establishing a philosophy and gaining a knowledge of the principles of guidance. Includes an introduction to the literature of the field. Prerequisite: 2001.511 or equivalent.

2001.606 INTRODUCTION TO CAREER DEVELOPMENT (3) This course is designed to familiarize students with aspects of career development, to introduce them to a variety of relevant resources and media and to assist them to integrate this knowledge by planning a program of career development for a specific group.

2001.607 OCCUPATIONAL INFORMATION (3) Provides students with knowledge of educational and vocational opportunities and community referral sources essential to a sound guidance program. Includes evaluation, classification and use of such information in the instructional program. Group guidance, counseling and placement. Prerequisite: 2001.605

2001.608 MEDIA IN CAREER EDUCATION (3) This course provides an introduction to the production of videotapes, films, filmstrips, slides and audiotapes pertaining to the world of work. Workshop procedures will be used to develop career education materials for use in a variety of employment settings. Prerequisite: 2001.607

2001.611 ANALYSIS OF THE INDIVIDUAL (3) Techniques available in studying the individual. Emphasizes data in the areas of vocational, educational and personal adjustment. Prerequisite: 2001.605 and 2001.411 (2001.605 may be taken concurrently)

2001.615 TECHNIQUES OF COUNSELING (3) Counseling and therapy techniques used by counselors and other professional personnel working with children and adults. Prerequisite: 2001.430 or equivalent.

2001.621 GROUP COUNSELING (3) This course is designed to survey the theories, principles, and techniques of group counseling. Some additional topics to be covered are the role of the leader, problems of member selection, evaluation of group progress, and the ethics and training of group counselors. Prerequisite: 2001.430

2001.627 USE OF TESTS IN COUNSELING (3) Practice in the use and analysis of techniques for understanding the individual with emphasis upon standardized procedures used in the public schools. Prerequisite: 2001.411

2001.630 COUNSELING THE ELEMENTARY SCHOOL CHILD (3) Study of the dynamics of child behavior, techniques of assessing and counseling. Study of the family, school, and community structures and their effect on the child. Prerequisite: 2001.430

2001.645 COUNSELING PRACTICUM I (3) Supervised experience in educational, vocational and personal counseling. Prerequisite: 2001.430 and consent of coordinator. Credit will be granted for this course upon completion of 2001.646.

2001.646 COUNSELING PRACTICUM II (3) Field experience in educational, vocational and personal counseling. Prerequisite: 2001.645 plus consent of the coordinator.

2001.651 PRACTICUM IN SCHOOL/CLINICAL PSYCHOLOGY (3) Provides an opportunity to participate in diagnostic, remedial and therapeutic planning as well as follow-up studies under supervision of practicing certified psychologists. Prerequisite: 2001.520, 2001.591, 2001.592. MA candidate in school or clinical concentration. Consent of coordinator.

2001.652 INTERNSHIP IN SCHOOL/CLINICAL PSYCHOLOGY (3) Each student must be a full-time student during the semester he enrolls in this course, typically the last semester of work. The student will be placed on internship in a school or clinic, depending upon his specific orientation. He will participate in the complete workings of that agency under the direct supervision of a practicing certified psychologist. Prerequisite: 2001.651, MA candidate in School or Clinical concentration.

2001.690 SEMINAR IN SCHOOL/CLINICAL PSYCHOLOGY (3) Consideration of current practices, trends and techniques in School or Clinical Psychology. Prerequisite: Open only to MA candidates in the School Psychology Program.

2001.699 THESIS (3-6) Optional for students in Master of Arts for School Psychologists program. Required for students in Master of Arts in General Psychology.



Sociology and Anthropology

Chairperson: Irwin Goldberg

SOCIOLOGY COURSES (2208)

Upper Division—Undergraduate and Graduate

- 2208.311 INDIVIDUAL AND SOCIETY (3)
- 2208.321 IDEOLOGY, POWER AND SOCIETY (3)
- 2208.323 SOCIAL CHANGE (3)
- 2208.325 COLLECTIVE BEHAVIOR (3)
- 2208.327 URBAN SOCIOLOGY (3)
- 2208.329 DEMOGRAPHY (3)
- 2208.331 ORGANIZATIONS (3)
- 2208.333 POLITICAL SOCIOLOGY (3)
- 2208.335 MEDICAL SOCIOLOGY (3)
- 2208.337 SOCIOLOGY OF EDUCATION (3)
- 2208.339 COMMUNITY ORGANIZATION (3)
- 2208.341 SOCIAL STRATIFICATION (3)
- 2208.343 MINORITY GROUPS (3)
- 2208.351 SOCIAL DEVIANCE (3)
- 2208.353 CRIMINOLOGY (3)
- 2208.355 JUVENILE DELINQUENCY (3)
- 2208.357 SOCIAL WELFARE (3)
- 2208.359 SOCIOLOGY OF AGING (3)
- 2208.381 SOCIOLOGICAL THEORY (3)
- 2208.391 RESEARCH METHODS (3)
- 2208.470-479 SPECIAL TOPICS IN SOCIOLOGY (3)
- 2208.481 ADVANCED SOCIOLOGICAL THEORY (3)
- 2208.485 SEMINAR IN SOCIOLOGY (3)
- 2208.495 INDEPENDENT RESEARCH (3)
- 2208.496 PRACTICUM IN SOCIOLOGY (3-6)

ANTHROPOLOGY COURSES (2202)

Upper Division—Undergraduate and Graduate

- 2202.321 SEX ROLES IN CROSS CULTURAL PERSPECTIVE (3)
- 2202.346 WEALTH, POWER AND POLITICS IN CROSS CULTURAL PERSPECTIVE (3)
- 2202.364 RELIGION, MAGIC AND WITCHCRAFT (3)
- 2202.365 NORTH AMERICAN INDIANS (3)
- 2202.366 SOUTH AMERICAN INDIANS (3)
- 2202.367 PEOPLES OF THE MIDDLE EAST (3)
- 2202.369 TRADITION AND REVOLUTION IN LATIN AMERICAN SOCIETY (3)
- 2202.370-379 TOPICS IN ANTHROPOLOGY (3)
- 2202.381 ARCHAEOLOGICAL METHODS AND THEORY (3)
- 2202.383 NORTH AMERICAN ARCHAEOLOGY (3)
- 2202.385 ARCHAEOLOGY OF THE AMERICAN SOUTHWEST (3)
- 2202.388 PEASANT CULTURES (3)
- 2202.401 ANTHROPOLOGICAL THEORY (3)
- 2202.470-479 SPECIAL TOPICS IN ANTHROPOLOGY (3)
- 2202.495 INDEPENDENT RESEARCH (3)

Theatre Arts

Chairperson: Paul Berman

THEATRE ARTS COURSES (1007)

Upper Division—Undergraduate and Graduate

- 1007.307 THEATRE ARTS FOR CHILDREN (3)
- 1007.321 ACTING III (3)
- 1007.331 PLAY DIRECTING I (3)
- 1007.355 STAGE LIGHTING (3)
- 1007.361 DESIGN FOR THE STAGE (3)
- 1007.371 THEATRE GAMES I (1)
- 1007.372 THEATRE GAMES II (1)
- 1007.401 THEATRE AS A PROFESSION (1)
- 1007.407 THEATRE ARTS FOR CHILDREN—ADVANCED (2)
- 1007.411 PROBLEMS IN ACTING OR DIRECTING I (1-3)
- 1007.412 PROBLEMS IN ACTING OR DIRECTING II (1-3)
- 1007.413 PROBLEMS IN ACTING OR DIRECTING III (1-3)
- 1007.421 PLAY DIRECTING II: THE CONTEMPORARY PLAY (3)
- 1007.431 DIRECTING THE PERIOD PLAY (3)
- 1007.441 COSTUME DESIGN (3)
- 1007.471 PRODUCING STORY THEATRE IN THE SCHOOLS (2)
- 1007.473 WORKSHOP IN STORY THEATRE (2)
- 1007.475 USING THEATRE GAMES TECHNIQUES IN THE SCHOOLS (2)
- 1007.477 WORKSHOP IN THEATRE GAMES TECHNIQUES (2)
- 1007.480 PROBLEMS IN DESIGN AND TECHNICAL THEATRE I (1-3)
- 1007.481 PROBLEMS IN DESIGN AND TECHNICAL THEATRE II (1-3)
- 1007.482 PROBLEMS IN DESIGN AND TECHNICAL THEATRE III (1-3)
- 1007.485 ADVANCED THEATRE WORKSHOP FOR SECONDARY SCHOOL TEACHERS (6)
- 1007.486 WORKSHOP IN THEATRE PRODUCTION FOR SECONDARY SCHOOL TEACHERS (6)
- 1007.487 PROFESSIONAL THEATRE SEMINAR (12)
- 1007.493-498 PROBLEMS IN THEATRE I, II, III, IV, V, VI (1-3)
- 1007.499 SPECIAL PROJECT IN THEATRE RESEARCH (3)



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ROBERT WALL	PROFESSOR OF EDUCATION
JOSEPH J. TOPPING	ASSISTANT PROFESSOR OF CHEMISTRY

DONALD R. WINDLER	ASSOCIATE PROFESSOR OF BIOLOGY
BARBARA R. SLATER	ASSOCIATE PROFESSOR OF PSYCHOLOGY
RUTH M. CONARD	PROFESSOR OF PHYSICAL EDUCATION
CHARLES LONEGAN, JR.	ASSOCIATE PROFESSOR OF COMMUNICATION ARTS and SCIENCES
RICHARD J. WILLIAMS	PROFESSOR OF EDUCATION
PAUL T. BARRETT	STUDENT
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RICHARD J. WILLIAMS	COORDINATOR, ELEMENTARY EDUCATION PROGRAM
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JOHN B. MITCHELL	COORDINATOR, ART EDUCATION PROGRAM
GARY ROSECRANS	COORDINATOR, INSTRUCTIONAL TECHNOLOGY PROGRAM
STANLEY ZWEBACK	COORDINATOR, PSYCHOLOGY PROGRAM

Instructional Faculty 1977-1978

The date in parentheses following the listing of each person is the date of first appointment in the college.

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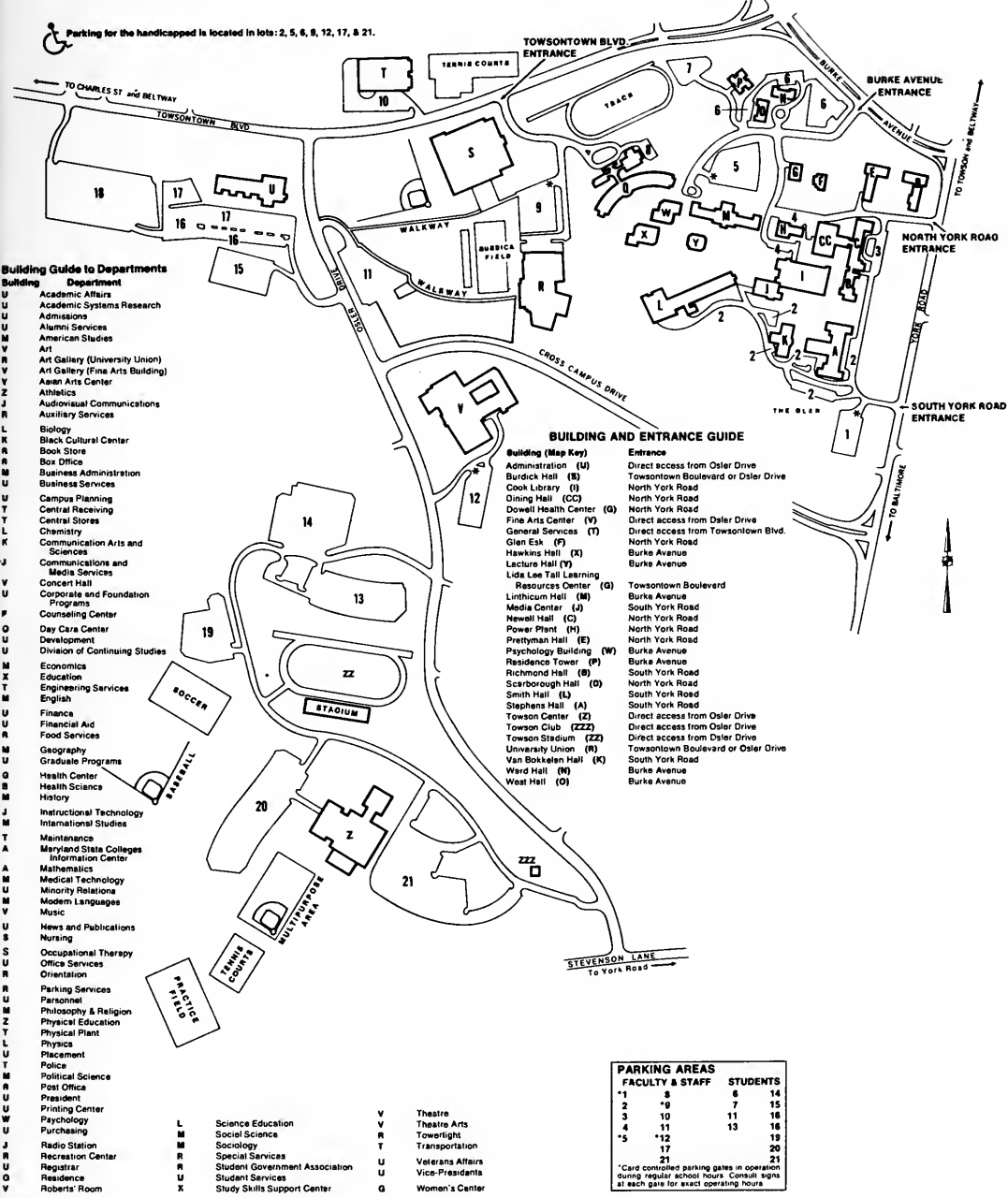
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